National guideline for the management of suspected sexually transmitted infections in children and young people

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The Children Act 1989 defines a child as “a person who has not yet reached 18 years of age.” In England, Wales, and Scotland the present age of consent for heterosexual and homosexual sex is 16 years and in Northern Ireland it is 17 years. The proportion of young people who report heterosexual intercourse before the age of 16 years increased in the 1990s compared with the previous decade.1

Although children under 16 years may be involved in consensual sexual activity other issues need to be considered including:

- Risk of sexually transmitted infection (STI)
- Past and continuing sexual abuse/assault
- Undiagnosed mental health problems including self harm, eating disorders, alcohol and substance misuse
- Risk of or involvement in prostitution/commercial sex work
- Vulnerability of those living away from home/accommodated by the local authority
- Vulnerability of those with physical and/or learning disabilities irrespective of age.

In these guidelines, children under the age of 18 years will be referred to as “young people.” The guidelines are primarily directed at the management and care of young people under the age of 16 years but those aged over 16 years may require the same consideration of the factors listed above.

PRINCIPLES OF CARE (C)

All young people accessing the genitourinary medicine (GUM) service should:

- Expect confidentiality (see section on confidentiality)
- Have trust and confidence in the service
- Be consulted and have choices
- Remain in control of the process, wherever possible
- Be seen in the most appropriate site for optimal care according to local facilities, resources, demand, and trust regulations.

Issues to be considered include:

- Separate “young people clinics” in GUM clinics
- Separate waiting areas for young people in main GUM clinics
- Skills of staff for the management of young people
- Laboratory access
- Flexibility and collaboration between hospital departments, including establishing appropriate guidelines between microbiology, paediatric, GUM and family planning (FP) departments (where applicable)
- Have their attendance fully documented. An “under age attender proforma” for young people under 16 years attending GUM is a suggested area of good practice (see Appendix 1 on the STI website for suggested proforma)

- Be seen by a senior doctor for their first visit (or a senior nurse if family planning/contraceptive advice is requested) or have their notes reviewed by a senior doctor
- Be given the opportunity to be seen without a parent or carer if Gillick competent (see section on consent), but be encouraged to involve a parent or carer with parental responsibility, in their decision process. Their response to this suggestion should be documented

- Be assessed for mental health, substance and alcohol misuse, lifestyle or learning difficulties that may put them at future sexual, emotional, or physical risk and referred to child and adolescent psychiatry (or other agencies) where appropriate
- Be referred to a health adviser (see Appendix 2 on the STI website for suggested proforma)

- Receive a follow up visit with senior staff (nursing or medical).

Where a young person has requested HIV testing she/he should receive appropriate information. This should also involve the parent/carer particularly when the young person is not Gillick competent.

The use of photographs

Local guidelines should be followed when taking photographs of young people and informed consent needs to be obtained from the young person.

Storage and disclosure of health records

Health records for young people must be kept until the person reaches the age of 25 years. Refer to local trust policy for the storage of child protection records. Disclosure of records raises specific issues with young people under 16 years and parental/guardian rights; it is advisable to seek advice from the trust’s solicitors.

MEDICAL RESPONSIBILITIES

All health professionals, in the National Health Service (NHS), private sector, and other agencies, play an essential part in ensuring that young people and families receive the care, support and services they need to promote a young person’s health and development.3

Each NHS trust has a named doctor and a named nurse or midwife who take a professional lead for child protection matters within the trust.3

All staff working in genitourinary medicine (GUM) should (C):

- Be alert to the possibility of child abuse and neglect
- Be aware of local area child protection committee (ACPC) procedures and protocols
• Know the names of the relevant named and designated professionals
• Be familiar with local procedures for checking the child protection register
• Receive training and supervision needed to recognise and act upon child welfare concerns and to respond to the needs of the young person
• Be aware of the guidelines for the management of young people under 16 years attending GUM clinics
• Know the chain of evidence procedure (see below).
  All GUM clinics should have (C):
• Guidelines on management of young people under 16 years attending GUM clinics
• Copies of local ACPC procedures and protocols
• Procedures for chain of evidence
• A regularly updated list of child protection contacts (see Appendix 3 on STI website)
• Access to child protection training for staff
• Regular audit and review of compliance with guidelines and under 16 years policy
• A nominated consultant physician to take the lead for under 16 year olds who is part of a multidisciplinary team in the department consisting of a nurse and health adviser and others who have received training in child protection issues,4

SEXUAL ABUSE/SEXUAL ASSAULT (IV)
Sexual abuse involves forcing a young person to take part in sexual activities, whether or not the young person is aware of what is happening. The activities may involve physical contact, including penetrative (for example, rape or buggery) or non-penetrative acts. They may include non-contact activities such as involving the young person in looking at, or in the production of, pornographic material or watching sexual activities, or encouraging young people to behave in sexually inappropriate ways.1
• Sexual abuse can be perpetrated by male and female adults, teenagers, as well as older children
• Young people may often suffer from more than one type of abuse
• Young people may present in a variety of ways with a wide range of symptoms that are summarised in table 1
• The signs of sexual abuse in young people are rarely diagnostic and are listed in table 2. The Royal College of Physicians of London provides the current knowledge base for this subject in the United Kingdom
• Sexual abuse and consensual sexual activity may coexist
• The possibility of sexual abuse needs to be considered in any young person attending a GUM clinic.

CONSENT FOR MEDICAL TREATMENT6–9
Young people under the age of 16 years, who are able to fully understand what is proposed and its implications, are competent to consent to medical treatment regardless of age (Fraser Ruling, often termed Gillick competence). The more serious the medical procedure proposed a correspondingly better grasp of the implications is required. If a young person is not Gillick competent, consent from a parent or carer with parental responsibility is necessary.
It is preferable that a young person attending a sexual health service has the support of a parent or carer with parental responsibility. Often young people do not wish their parents or carers to be informed of a medical consultation or its outcome. The doctor should discuss the value of parental support with the young person, but respect the young person’s wishes, views and confidentiality if they do not wish for parental involvement. Establishing a trusting relationship between the young person and the healthcare professional at this stage will do more to promote health than to refuse to see the young person without involving the parents or carers with parental responsibility.

### CONFIDENTIALITY AND CHILD PROTECTION ISSUES10–11
The care of the young person must be guided by the standards laid down in statute for sexually transmitted disease (STD) services, the Children Act 1989, the European Convention on Human Rights,13 and the Human Rights Act. In the future consideration will have to be given to the recommendations of the sex offences review Setting The Boundaries if this becomes law.
Ethical and medicolegal difficulties, therefore, accompany caring for sexually active teenagers. The age of consent for heterosexual and homosexual intercourse is 16 years in England, Wales, and Scotland and 17 years in Northern Ireland. Many young people are sexually active below this age and may access sexual health services. For most, sexual activity will be consensual, but the possibility of child sexual abuse needs to be considered. The young person should be questioned to elicit whether sexual activity is voluntary, to ensure there is no coercion (particularly when there is a disparity of age), sexual exploitation, rape, or other sexual abuse.
Where sexual abuse is suspected or disclosed the clinician must work with the young person to support them and address the possible sequelae of STIs, pregnancy, psychosocial, and psychossexual issues. The clinician has a duty to disclose the information to child protection services but should seek the young person’s agreement wherever possible. It may be appropriate to work with the young person over several visits in order to facilitate disclosure unless there is immediate danger to that young person or others. The law permits the disclosure of confidential information necessary to safeguard a young person. Legal advice should be taken in doubtful cases. Disclosure against the young person’s wishes is

<table>
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<tr>
<th>Table 1</th>
<th>Modes of presentation of child sexual abuse</th>
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<td>Physical indicators</td>
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<td>Soreness/itching</td>
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<td>Multiple vague physical complaints</td>
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<td>Sexualised behaviour, promiscuity, prostitution</td>
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<td>Depression, anxiety, self mutilation, suicide</td>
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<td>Delinquency, criminal behaviour</td>
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<td>Truancy, running away, drug and alcohol abuse</td>
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deal with in the General Medical Council (GMC) guidelines Confidentiality: Protecting and Providing Information,20 in the British Medical Association (BMA) publication Consent, Rights and Choices in Health Care for Young People,21 the Children Act,2 and the Department of Health (DOH) document Medical Responsibilities.23 Whenever possible the young person should be informed that disclosure will occur.

In practice, the clinician must take into account both the need of the young person for a confidential sexual health service and the need to protect that young person from sexual abuse and sexual exploitation. The clinician also has a duty to consider the possibility that other young people may be at risk of abuse.

**YOUNG PEOPLE INVOLVED IN COMMERCIAL SEX WORK**

Young people involved in prostitution should be treated primarily as the victims of abuse, and their needs require careful assessment. They are likely to require the provision of welfare services and, in many cases, protection under the Children Act 1989.11–13 There must be a multidisciplinary approach in the GUM setting to provide these young people with STI screening, treatment of STIs detected, vaccination against hepatitis B and advice on contraception, acquisition of HIV, and other STIs. They must also be provided with strategies to assist them in exiting prostitution. Clinicians should encourage the young person to involve carers and work with the young person to encourage voluntary disclosure4 to an appropriate agency. It may be possible to work with the young person over several visits in order to facilitate disclosure unless there is immediate danger to that young person or others. Each case should be assessed on an individual basis in collaboration with other team members. Discussion on an anonymous basis with colleagues and professional, regulatory, or indemnifying bodies may be helpful.2 If the young person cannot be persuaded to agree to voluntary disclosure, and there is an immediate need to disclose information to an outside agency, they should be told what action is to be taken.4 Where a young person is unable to give or withhold consent, the disclosure information should be given promptly to the appropriate body. The young person should be informed where possible. If you do not believe disclosure is in their best interests, you must be prepared to justify your decision.

Clinics must have close links with the ACPC, and other agencies—for example, police, to enable discussion of cases on either a named or anonymous basis.

Specific information related to Scotland and Northern Ireland, and the possible impact of the European Convention on Human Rights on UK legislation can be found in the BMA publication.11–14

**RISK OF INFECTION (III)18 19**
The risk of a young person acquiring an STI is dependent on several factors including:

- The prevalence of STIs within the local population
- Maternal STI during pregnancy leading to vertical transmission to the infant
- The type of sexual activity—for example, penile, vaginal, or rectal penetration, is more likely to lead to infection than other types of sexual activity
- Injuries of the genital tract. Trauma increases the susceptibility to infection
- The sexual maturity of the young person. A young person has an increased biological susceptibility to carcinogens and STIs because of physical and immunological immaturity of the genital tract
- The lack of use of barrier contraception
- Age at first intercourse and previous sexual activity as these may lead to a longer period of exposure to transmissible agents and an increased number of partners
- Coexistence of other risk behaviours such as drugs or alcohol misuse.

**THE SIGNIFICANCE OF INFECTION (IV)**
The significance of an STI requires careful interpretation. It can be used as corroborative evidence and indicate a high probability of sexual abuse. Rarely, it can be conclusive evidence of abuse—for example, when the same STI is identified in the alleged perpetrator and the young person, and other sources of infection have been excluded (for example, perinatal from the mother).
The presence of any STI in young people may indicate that sexual abuse has taken place, but other methods of transmission should be considered (Table 3).

- Two reviews concluded that accidental transmission (fomite, close physical contact, or autoinoculation) is an exceptionally uncommon mode of transmission of STIs to young people.
- Vertical transmission is a possibility in a young person aged less than 3 years although sexual abuse can also occur within this age group.
- Consensual sexual activity and sexual abuse can coexist.

The presence of one STI indicates the need to look for others.

The incubation periods for STIs are highlighted in Table 4.

### EXAMINATION TECHNIQUES FOR PREPUBERTAL YOUNG PEOPLE (C)

Local guidelines and collaboration between hospital departments should be established with paediatric support. Examinations of young people should be conducted so as to minimise pain and trauma to the young person. The examination of any young person may require more than one appointment to gain their confidence. The examination of prepubertal young people should ideally be done with an appropriately trained paediatrician. The examination for signs of suspected sexual abuse should only be carried out by medical personnel specifically trained in forensic examination of suspected victims of child sexual abuse.

The examination of prepubertal girls is recommended as follows:

- The young person is examined in the supine “frog legged” position (young children can be held on a carer’s lap). The knee-elbow position can be used to give a better view of the posterior hymen.
- The external genitalia should be inspected; the labia majora should be gently separated to view the hymenal orifice; gentle traction at the posterior edge of the labia majora, between the thumb and index finger, allows clearer visualisation of the hymen.
- Buttock separation, in the left lateral position, using the palms of both hands to view the anus for 30 seconds.

The examination of prepubertal boys is recommended as follows:

- Young children can be held on a carer’s lap.
- The external genitalia should be inspected; the foreskin, if present, should be gently retracted, where possible, to view the urethral meatus and frenulum; the scrotum should be gently palpated to assess for the presence, and any pathology, of both testes.
- Buttock separation, in the left lateral position, using the palms of both hands to view the anus for 30 seconds.

### SAMPLING TECHNIQUES (C)

The genital organs of female infants, children, adolescents, and adults have important anatomical and physiological differences. These differences influence the microbiological flora of the genital tract and the sampling sites for screening.

- Sampling techniques must be specific for the sexual maturity of the young person.
- The number of samples taken should be the minimum necessary and the least invasive for prepubertal, peripubertal...
young people, and victims of sexual abuse/sexual assault. Priority should be to obtain suitable specimens to identify Neisseria gonorrhoeae (GC), Chlamydia trachomatis (CT), Trichomonas vaginalis (TV) and, in the presence of genital ulcers, herpes simplex virus (see Appendix 4 on STI website).

- Sterile cotton tip swabs are recommended and these can be moistened with sterile water (or the viral culture medium if performing viral cultures)
- For prepubertal girls, smaller ear, nose, and throat (ENT) swabs are useful for transhymenal vaginal sampling. Avoiding contact with the hymen will reduce discomfort and increase cooperation of the young person. ENT swabs are also useful for male urethral sampling, if undertaken.

Recommended sample sites for prepubertal females include:
- Vulva
- Posterior fourchette
- Posterior vaginal wall.

Vulval or vaginal washings are also suitable. Urethral swabs cause discomfort and should be kept to a minimum.

- Postpubertal females can be screened according to local protocols for female adults if tolerant of speculum examination. In some pubertal females it may be impossible to pass a speculum. Blind vaginal sampling together with urethral and/or urine nucleic acid amplification techniques (NAAT) are advised (see screening protocol, Appendix 4 on STI website).

- Screening of male young people will depend on their presenting history and the method of abuse (where suspected). Urethral swabs cause discomfort and their use should be kept to a minimum. Urine NAAT should be considered.

**DIAGNOSTIC METHODS (C)**

Most screening tests for STIs have been developed and approved only for genital sites in the adult population. In young people especially when abuse is considered:

- The most sensitive and specific test available for the organism should be used
- Culture tests should be undertaken to identify N gonorrhoeae, C trachomatis (culture is still the only test currently accepted by the courts although many laboratories no longer provide culture and the sensitivity of the test is suboptimal. Guidelines are currently under discussion for C trachomatis testing in cases of assault), and T vaginalis for evidential purposes

When an organism is isolated the sample should be preserved for future analysis (in case of medicolegal implications) as recommended in the report The Retention and Storage of Pathological Records and Archives²

A positive test should be confirmed preferably by a test that involves a different process.

**CHAIN OF EVIDENCE**

Where sexual abuse or sexual assault is suspected, or if any prepubertal young person is being screened for STIs the examining physician should use a chain of evidence form. This applies to the screening of family members or an assailant associated with the index case.

The chain of evidence requires that the origin and history of any exhibit to be presented as evidence in a court of law must be clearly demonstrated to have followed an unbroken chain from its source to the court. It is initiated by the physician taking the samples, who must seal the sample, label it fully, and hand it to the next person in the chain.

Sample labelling should identify that the patient is a young person and include:
- The name of the examinee
- Description and site of the sample
- The date and time (24 hour clock)
- Signatures
  - physician initiating the chain
  - subsequent custodians

All people handling the sample along with the places and conditions of storage must be documented with the date, time, place, and signatures of custodians.

All GUM clinics should have a procedure for chain of evidence and a suggested accompanying form is shown in Appendix 5 on the STI website.

**SCREENING FOR STIs (C)**

Screening is recommended in all young people who may have been sexually abused or who have been found to have an STI.

Where a young person of less than 3 years has tested positive for an STI, vertical transmission is a possibility but sexual abuse will need to be considered. Where a prepubertal young person above the age of 3 years has tested positive for an STI, sexual abuse is the most likely mode of transmission, but perinatal transmission should be excluded as far as is possible/feasible.

The following management is suggested in addition to screening the young person as indicated in Appendix 4 (on the STI website):
- The subject’s parents should be offered full STI screening to exclude vertical transmission
- The subject’s siblings and other young people/adults in the household should also be offered screening for STIs.

Where sexual abuse is suspected:
- Local procedures should be followed (for example, ACPC procedures, chain of evidence)
- Prepubertal (<11 years) and peripubertal (11–13 years) young people should be seen for a comprehensive medical examination by a paediatrician experienced in sexual abuse evaluation and joint assessments with the relevant professionals should be considered
- Management of victims should address, in addition to child protection issues:
  - Physical injuries
  - Emergency contraception
  - Sexually transmitted infections (STIs)
  - Psychological trauma
  - Counselling
- Referral for multiagency assessment.

**SCREENING/MANAGEMENT SCHEDULE (C)**

The scheduling of examinations should depend on the history of abuse/assault and incubation periods of STIs. They should be determined on an individual basis taking into account the young person’s (and their parent/carer’s) psychological and social needs. A single examination may be sufficient if the young person has been abused over an extended time period by the same person/people or if the last episode of abuse was at least 3 months earlier.

A general guide for examination timing is as follows:
- Immediate (if practical) for oral sampling (if available), serology, and initial specimen collection (some subjects may have undiagnosed pre-existing infection)
- 2 weeks after the initial abuse/assault for initial sampling or repeat sampling (if immediate sampling performed) with a follow up visit for results and counselling at a further 1–2 weeks
- 12 weeks for repeat serology and 6 months in some cases.
gain on the Communicable Diseases Surveillance Centre (CDSC) website.

Inadequate information on the risks and benefits of post-exposure prophylaxis for HIV following sexual abuse or assault in young people makes routine recommendations impossible. Hepatitis B vaccination is considered for all adult victims of sexual assault. Inadequate information on the risks and benefits of post-exposure prophylaxis following sexual abuse or assault in young people makes recommendation impossible and vaccination should be considered on an individual basis depending on the type of assault and any risk factors identified in the perpetrator.

MANAGEMENT OF SPECIFIC SEXUALLY TRANSMITTED INFECTIONS (C)
The following should be read in conjunction with the published UK national guidelines on sexually transmitted infections and closely related conditions. The latest prevalence data are found on the Communicable Diseases Surveillance Centre (CDSC) website.

The modes of transmission for specific STIs are found in table 3. The treatment for specific STIs in young people is shown in Appendix 6 on the STI website.

SPECIFIC STIs
Chlamydia trachomatis (CT)
Prevalence
The risk of perinatal transmission is 50–70% (IV). Infection may occur in the conjunctiva, nasopharynx, rectum, or vagina of infants. Infection may be asymptomatic and persist in the latter two sites for at least 3 years. The prevalence of genital chlamydial infection is highest among sexually active adolescents. The British Cooperative Clinical Group (III) found CT in 12.1% of girls under 16 years and 11.1% in girls 16–19 years (boys were 2.2% and 8% respectively) attending GUM clinics in the United Kingdom. Chlamydial infections have been identified in 1.2%–17% of sexually abused young people when specimens were routinely cultured and coincident infection with CT has been observed in up to 27% of young people with gonorrhoea. The higher rates are more common in post-pubertal young people.

Clinical features
As with adults, CT infection in young people can be asymptomatic or symptomatic.

Gonorrhoea
Prevalence
The risk for an infant born to a mother with untreated gonorrhoea of developing gonococcal ophthalmia is approximately 30%. The reported prevalence of gonorrhoea in studies of sexually abused young people ranges from 2.4%–11.2%. The British Cooperative Clinical Group (III) found gonorrhoea in 2.1% of girls under 16 years and 2.0% in girls 16–19 years (boys were 2.9% and 3.5% respectively) attending GUM clinics in the United Kingdom.

Clinical features
The bulk of evidence strongly suggests that gonorrhoea in young people over 1 year is sexually transmitted and the isolation of a gonococcal infection is highly suggestive of sexual abuse. Infection may occur in the conjunctiva, oropharynx, urethra, vagina, endocervix, and rectum. Up to 50% of infections in women are asymptomatic, particularly pharyngeal (>90%) and rectal infections.

The commonest symptom in prepupetal young people is vaginal discharge. Asymptomatic infection, pelvic inflammatory disease, and perihepatitis can occur but are uncommon (5% had no vaginal discharge in one study of sexually abused pre-teenage girls). Rectal and pharyngeal infection typically are asymptomatic and are often unrecognised.

Anogenital warts (AGW)
Prevalence
AGW were found in 1.8% of 1538 young people, aged between 1–12 years being evaluated for possible sexual abuse. The incidence of first attack genital wart infections is now higher in teenage girls than in any other age group presenting to GUM (IV).

Clinical features and diagnosis
For clinical features see UK national guidelines on sexually transmitted infections and closely related conditions. Considerable evidence supports the position that AGW in young people appearing after infancy are usually acquired after sexual contact. Anogenital lesions that are recognised within the first year of life are likely to be perinatally acquired. Between 1–3 years after birth uncertainty regarding the origin of newly developing anogenital lesions continues (IV).

Management
The management of young people with AGW should follow the sections on “screening for STIs.” In addition
• If AGWs are found in a prepubertal young person, a cervical smear history should be checked for the natural mother
• Currently, DNA subtyping has not been fully evaluated but may have research value
• Suggested good practice would be to follow up prepubertal young people for 1 year to exclude recurrence.

Treatment (C) (see Appendix 6 on STI website)
In the absence of symptoms consider a period of observation for a minimum of 2 months in case of spontaneous resolution.

The minimum number of treatments that ensure the maximum effect should be used. Treatments in young people have not been adequately researched and the methods used will depend on:
• The location of the AGWs
• The severity
• Age of the young person
• The compliance of the young person
• Previous treatment complications
• The balance between surgery and the benefits of delay in cases where spontaneous resolution may occur
• The preference of the young person and/or their carer.

Trichomonas vaginalis (TV)
Prevalence
Perinatal infection occurs in approximately 5% of infants born to infected mothers. The organism may persist for up to 9 months in the absence of treatment. TV is uncommon in prepubertal young people. TV is very site specific and non-sexual transmission is believed to be a rare event. The reported prevalence of TV in studies of young people evaluated for suspected sexual abuse ranges from 1–4.7%. The subjects were more likely to be pubertal and to have a vaginal discharge.

Clinical features and diagnosis
Vulvovaginitis is the commonest presenting symptom in prepubertal young people.
Herpes simplex virus (HSV)
Either HSV-1 or HSV-2 can cause genital herpes.

Prevalence
The prevalence of genital herpes in prepubertal young people and adolescents is unknown. The risk of acquisition of HSV following an assault is also unknown and the defined incubation period is possibly longer than stated in table 4.

Clinical features and diagnosis
For clinical features see UK national guidelines on sexually transmitted infections and closely related conditions.29

Syphilis
Prevalence
Congenital syphilis is uncommon in the United Kingdom. Syphilis is uncommon among young people who have been abused.30 The prevalence of positive serology for syphilis in six surveys of abused young people published from 1988–92 ranged from 0–1.8%.31 Prepubertal young people with primary or secondary stages of syphilis occurring beyond the neonatal period should be presumed to be victims of sexual abuse.32

The incidence of syphilis among adolescents is low; 17 cases in 1989 and 16 in 1990 in the United Kingdom.33 Most adolescents with syphilis have acquired their disease through consensual sexual activity, although sexual abuse should still be considered as a possibility as studies have demonstrated beyond the neonatal period should be presumed to be victims of sexual abuse.7

Clinical features, diagnosis, management
See UK national guidelines on sexually transmitted infections and closely related conditions.5

Human immunodeficiency virus (HIV)
Prevalence
The prevalence of infection in young people is unknown but data that exist are on the CDSC website.7 The incidence of HIV infection acquired by young people through sexual abuse/assault is also unknown. In the United States, one study reported that 14.6% of young people with HIV infection were sexually abused and a second study found positive HIV tests in 0.7% of young people being evaluated for sexual abuse.47,48

There are no equivalent UK data.

Management
Where a young person is found to have a positive HIV test:
• Maternal HIV status should be ascertained depending on the age of the young person and their lifestyle/risk factors, as some cases of perinatally acquired HIV infection may not present with an AIDS defining illness until over 10 years of age
• Where maternal testing is negative and a transfusion route is excluded, sexual abuse must be suspected and local procedures followed
• The subject should be referred to a paediatrician/centre experienced in the care of young people with HIV and AIDS
• The subject and their parents/carers should receive appropriate counselling and multiagency support
• Sexual contacts should be offered screening and counselling
• A full STI screen should be performed unless already completed

Helpful information can be obtained in Guidance on Children in Need and Blood-borne viruses: HIV and Hepatitis.16

Bacterial vaginosis (BV)
The significance of finding BV in young people is unclear. Sexual transmission has not been clearly documented and it is not regarded as an STI in adults. It is of doubtful significance in the interpretation of abuse. Gardnerella vaginalis has been cultured from various sites in the newborn but it has not been established for how long these sites may be colonised. The majority of case reports and studies in young people have been based only on the identification of G vaginalis, not on Amsel’s criteria. One of the four criteria cannot readily be applied to girls, as during the childhood or prepubertal period the vaginal environment is alkaline. G vaginalis has been isolated from vaginal cultures of 1%–32% normal or control young people, compared to 7%–34% in sexually abused or sexually active girls.49 Hammarschlag et al found BV in 13% of sexually abused girls compared with none of the controls.50 BV may cause a vaginal discharge but also may be asymptomatic.45,51

Diagnosis
For pubertal girls, Amsel’s or Nugent’s criteria should be used. For prepubertal young people a positive whiff test in the presence of abnormal discharge and identification of clue cells on Gram stain is recommended (C).

AUDITABLE OUTCOME MEASURES
• Training of staff members as percentage of total
• Offer of STI screen and number screened of young people under 16 years
• Percentage of young people under 16 years screened for STIs in above age categories
• Compliance with guidelines
• Management of young people to be raised at induction of all new staff.

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CONFLICT OF INTEREST
None.

EVIDENCE BASE
Evidence has been sought from Medline, Cochrane Library, and Physical Signs of Sexual Abuse in Children—Report of a working party of the Royal College of Physicians, 2nd ed 1997. Additional papers referenced by articles identified by the search strategy were also reviewed. Searches were made from 1966–2000 using key words “Sexually transmitted disease,” “Paediatric,” “Children,” “Sexual abuse,” Chlamydia/Chlamydia trachomatis,” Trichomonas/Trichomonas vaginalis,” “Gonorhoea,” “Syphilis,” “HIV,” “Human papillomavirus,”” “Genital warts,” and key publications since have been incorporated.

FURTHER READING
Future research suggestions

- Data collection as disaggregate or in age ranges of 0–3 years, 3–12, 13–15 years, and number seen for possible abuse
- Rates of STIs in prepubertal young people
- Evaluating NAAT for screening for STIs in young people
- Non-invasive screening methods for the diagnosis of STIs in young people
- The rate of AGW infection in young people born to mothers with present/previous anogenital HPV infection
- Long term sequelae of AGWs in prepubertal young people
- The effectiveness of current treatment methods of AGW in young people
- The prevalence of genital herpes in prepubertal young people and adolescents
- Diagnosis and management of PID in early puberty
- The incidence of HIV infection acquired by young people through sexual abuse/assault
- The incidence of hepatitis B and C infection acquired by young people through sexual abuse/assault
- The significance of BV in early puberty
- The significance and methods of diagnosing BV in prepubertal young people

For appendices see the STI website
www.sextransinf.com

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National guideline for the management of suspected sexually transmitted infections in children and young people
A Thomas, G Forster, A Robinson and K Rogstad

*Sex Transm Infect* 2002 78: 324-331
doi: 10.1136/sti.78.5.324

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