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Abstract
During the last decades, the expectancies towards sexual life of people with intellectual disability have been more and more recognized by researchers, clinicians, caregivers and parents. These expectancies, that largely depend on socio-cultural and personal factors, such as the level of disability, must be supported in order to help people with intellectual disability to reach the best quality of life as possible. Therefore, it is important to identify every patient’s and resident’s personal expectancies towards sexuality and which medical and educational support he/she needs according to his/her disability and co-morbidity. The aim of the present paper is to review the different research works conducted in this area.

Key words: sexuality; contraception; sterilization; mental retardation; intellectual disability; sexual abuse; sexually transmitted infections; AIDS; hygiene management

Caregivers and clinicians know that the sexuality of persons with intellectual disabilities (ID) remains a sensitive subject for many parents and many institutions. Fortunately, in the scientific literature, many studies have been published for more than 30 years to assess medical and educational issues regarding the sexual health of persons with intellectual disabilities. Because of famous medico-legal cases or controversies about systematic sterilizations in different Western countries, a number of case reports, editorials, viewpoints, ethical,

legal and historical reviews have also been published concerning hysterectomy or any form of surgical sterilization, so that the debate has too often been “To sterilize or not to sterilize”. Indeed, because of suspected poor medical compliance and/or vulnerability to sexual assault, persons with intellectual disabilities are often considered candidates for surgical sterilization. Parents and caregivers have expressed a strong preference for these methods, and there is a high satisfaction rate when they are performed. Unwanted pregnancy is definitely not the sole problem that may arise from the sexual activity of persons with intellectual disabilities. Sexually transmitted infections (STI), abuse or public offences constitute other potential problems that are often neglected since (surgical) contraception may give the wrong impression that “there is no danger anymore”. In 2007, the question is not whether persons with intellectual disabilities have a sexuality or if they have the right to live it. They do. The question is “How may clinicians, caregivers and parents help persons with intellectual disabilities to live their own sexuality? What are the specific needs of intellectually disabled patients, and how can they be assessed for preventive health?”

The first part of the answer resides in the knowledge that the problem exists, that it is intrinsically complex, and that it cannot be properly dealt with by simplistic considerations or radical ukases from the legal guardian of the patient. The aim of this paper is to review the different research works conducted to define the expectancies and needs of persons with intellectual disabilities in the area of sexuality and the potential solutions that have been evaluated.

People’s expectancies

The expectancies of persons with intellectual disabilities towards sexuality vary considerably according to their level of disability. Some studies have specifically addressed the sexual activity of persons with intellectual disabilities according to their disability level. Through parents and caregivers’ interviews, Chamberlain and coworkers found that half of the 11 to 23 year-old mildly disabled women attending a multiservice adolescent clinic in Cincinnati, USA, and who lived in the community, had had consenting sexual intercourse. This was the case for only 32 and 9% of women with moderate and severe disability, respectively. According to these authors, the proportion of sexual activity in women with mild disability was similar to that of the general population after adjustment for age and race. Similarity between mildly disabled patients and the general population in terms of sexual activity was also reported by others. More recently, Mc Gillivary interviewed 60 adults (35 men and 25 women) with mild to moderate intellectual disability living in the community. She found that 18 and 42% of the study subjects reported that they were currently or previously sexually active, respectively. In 2002, we published a study concerning the determinants of contraception among intellectually disabled women attending the state-funded facilities of the Belgian Region of Brussels and the neighboring Province of Walloon Brabant. Data from 397 women were collected (some data herein presented were not published and were extracted from our data base for this review). In this study, we distinguished between “previous consenting sexual intercourse” and “previous boyfriend” for each person. For many of the mildly and severely disabled women, romantic relationships were frequently noticed by the staff, whilst the person and/or her boyfriend had limited or no notion of what sexual intercourse was. The daily and structural organization of the institution did not allow the privacy required for a sexual relationship.

Because of the lower sexual activity of people with moderate and severe intellectual disability, studies that have assessed the overall sexual activity of the intellectually disabled population with no mention of disability level have demonstrated an overall lower sexual activity. For instance, through institution’s mail interviews, Diederich and Graecen extrapolated that 41% of intellectually disabled adults institutionalized in the region of Paris had ever had sexual intercourse. With a similar methodology, Gust and coworkers reported that 48% of the directors of state residential facilities with fewer than 50% of profoundly intellectually disabled subjects in the USA considered that sexual relations between patients occur sometimes, whereas 15% estimated that they occur often.

These different studies have assessed the previous or supposed sexual or romantic activity of persons with intellectual disabilities, as reported by parents and/or caregivers, but these activities not only depend upon the expectancies of the persons, but also upon the opportunity provided by their life milieu. In our study, 82% of mildly disabled women living in a coeducational facility previously experienced sexual intercourse, whereas only 4% of those living in a non-coeducational facility did so. In the study of Mc Gillivary, 46% of mildly and moderately intellectually disabled people with no prior sexual experience communicated that they intended to become sexually active as soon as the opportunity presented. McCabe reported similar findings in another group of 60 community dwelling Australians with mild ID. Approximately 58% of participants had previously experienced sexual intercourse, and 31% were currently sexually active, with frequency ranging from almost never to very often. Individuals with ID
were significantly less sexually active than peers with physical disabilities and the general population.

Pueschel and Scola\textsuperscript{10} interviewed the parents of 73 teenagers with Down syndrome (36 males and 37 females). Despite that over half the teenagers had expressed an interest in the opposite sex and that masturbation had been noticed in 40\% of the males and 22\% of the females, only four parents reported that their son or daughter ever mentioned a desire for sexual intercourse. The discrepancy with the results of Mc Gillivary\textsuperscript{14} is more likely due to methodological differences between both studies (patients’ \textit{versus} parents’ interviews) than from a specificity of Down syndrome in terms of sexual expectancies.

It must be noted that the different studies listed here have been conducted in developed countries. In many developing countries, sexual activity outside the marriage is much less socially valorized, and therefore, it would not be surprising to observe a significant difference in the expectancies of people with intellectual disability and their family towards sexuality.

Wherever in the world, there is a paucity of studies that have assessed in a large and representative sample what persons with intellectual disabilities themselves expect from sexuality in terms of sexual intercourse as well as affective relationships, marriage, and child raising. Also, the determinants of these expectancies (i.e. disability level, life milieu, previous sex education, gender, etc.) are not documented.

In the daily practice, to explore what a given patient expects from his or her sexuality is essential when providing preventive care. Indeed, this will further determinate his/her specific needs and therefore the educative and medical attitude needed. We have illustrated, through different case reports of persons with intellectual disabilities, that the concept of what sexual intercourse is, and what both partners want from their affective relationship may strongly vary. This could lead to some form of sexual abuse if not detected and dealt with properly.\textsuperscript{20} From these cases, we concluded that it is important to provide consultations where each partner will have the opportunity and time to freely express his/her wishes about sexuality through his/her own words, when intellectually disabled couples initiate common life.

\textbf{Patient’s needs}

From this literature review, it appears that hygiene management, general gynecological care compliance, Sexually Transmitted Infections (STI), abuse, and unwanted pregnancy prevention constitute different skill areas where the adaptive functioning of persons with intellectual disabilities may require specific educative and/or medical management. Since the adaptive functioning of the persons with intellectual disabilities widely depends on the disability level and also on the potential neurological, psychiatric or general co-morbidity, the support needs and the potential solution that may be proposed will greatly vary from one person to another.

\textbf{Hygiene}

Difficulty in managing menstrual flow constitutes a common problem amongst intellectually disabled women, especially the most severely disabled. Chamberlain and coworkers\textsuperscript{9} reported that 88, 44 and 27\% of severely, moderately and mildly disabled women, respectively, experienced hygiene difficulty during their menstrual periods. Elkins and coworkers\textsuperscript{5} noticed that a hygiene problem was the reason for referral of 22\% of intellectually disabled women to the interdisciplinary clinic of reproductive health in Memphis, USA. In our survey of 397 women with intellectual disability,\textsuperscript{15} we found that the prevalence of hygiene problems was 14, 2 and 1\% in severely, moderately and mildly disabled women, respectively. The differences in prevalence between our study and the other two studies\textsuperscript{5,9} reside in the difference in case selections. Indeed, those two studies were conducted in gynecologic clinics devoted to adolescents or persons with intellectual disabilities living in the community, whereas our study concerned all women attending the state-funded facilities in a given region.

The increased prevalence of hygiene problems in severely and profoundly disabled women is not only related to the increased cognitive impairment of these women, but also to motor disability, which is frequently associated with severe and profound intellectual disability. In our study, problems in menstrual period management were 4.2 times more frequent in profoundly and severely disabled persons who presented associated motor impairment than in women with the same level of intellectual disability, but without motor impairment.

Different approaches have attempted to provide support in hygiene management. It seems that behavioral education may help greatly, especially for women with mild and moderate disability.\textsuperscript{21-24} These approaches may be very helpful when patients view their menstrual periods as a sign of normalcy, similar to their mothers and sisters. Pharmacological approaches include oral lynestrelol,\textsuperscript{25} low-dose oral contraceptives that diminish menstrual flow, or depomedroxyprogesterone acetate (DMPA) injected every three months.\textsuperscript{5,26} In our study, DMPA injections were used by 17.6\% of patients.\textsuperscript{15}
Amongst severely and profoundly disabled women, it was the first contraceptive method, used by 42% of the patients under contraception. This demonstrates that the purpose of this method goes far beyond simple contraception. Progestin implants are increasingly replacing DMPA, with similar effect on menstrual flow.

Endometrial ablation has been proposed as a therapeutic option when pharmacological therapy is not sufficient or contraindicated.28 Some have advocated hysterectomy as a first choice method to cease menstrual flow,7 especially in the context of developing countries. For instance, Shet and Malpani7 reported that vaginal hysterectomies performed on 60 Indian women with ID resulted in “no significant complications”, and parents were “very pleased with the smooth postoperative recovery”. However, where behavioral and pharmacological therapies are available, this approach as a first line treatment seems to be out of use. Indeed, in a case series of 82 persons with moderately and mildly intellectual disabilities consulting the gynecologist for problems related to menstrual periods, Grover28 found that hygiene advice and pharmacological therapy could manage the problems of 80 of the patients. The two remaining patients benefited ultimately from an endometrial ablation for one, and a hysterectomy for the other.

Other problems related to menstrual periods in intellectually disabled women consist of behavioral trouble. Elkins and coworkers5 reported a 32% rate of premenstrual syndrome, including increased autistic behavior, irritability, restlessness, and seizures. Because of their inability to express their uncomfortable sensations, women with severe and profound disability may experience very severe premenstrual syndrome.29 Grover28 identified this as the main clinical problem leading to referral to the gynecologist in eight of her 107 patient’s series. DMPA or low-dose oral contraceptives seem to be efficient treatments.5 Grover28 has proposed non-steroidal anti-inflammatory drugs as a first line treatment to manage dysmenorrhoea or behavior changes to reflect pain in the absence of a need for contraception.

Prevention of sexual abuse

Persons with intellectual disabilities constitute potential victims of sexual abuse. Women with mild intellectual disability seem to be at increased risk. Chamberlain and coworkers4 reported a 25% prevalence of sexual abuse in intellectually disabled women living in the community. These abuses concerned mildly disabled women in 63% of cases. A similar finding was reported by Elkins et al.5 In these author’s series of intellectually disabled outpatients, 10 in 37 (27%) intellectually disabled women had been abused, seven of these 10 being mildly disabled. We found that women living in the community presented a 3.5 times increased risk to have experienced sexual abuse than women living in an institution.15 In a study by Huovinen,29 suspicion of sexual abuse was only 1.2%.

The intellectual ability of the abuser depends upon the studied population. Indeed, in outpatient studies,9 the abuse was incest in 41% of cases, and the abuser was nearly never intellectually disabled himself (4%). In strong contrast, US directors of a state facility for inpatients with intellectual disability reported that the abuser was a patient of the institution in 63% of cases.17

The reasons for this increased prevalence of sexual abuse against intellectually disabled women are multiple. Different authors have proposed that the passive, obedient and affectionate behavior presented by many subjects may constitute a risk factor.16,28,30 The easiness for the abuser to perpetrate rapes on non mobile patients, the difficulties of the victim to understand and to express what happened, and the proximity required for hygiene care constitute other reasons that may increase the risk of abuse against intellectually disabled women.

Prevention of sexual abuse must pass through sexual education of the patients. Many studies conducted in the 70’s and 80’s have demonstrated that persons with intellectual disabilities have a very low level of knowledge in reproductive health (for a review, see 31). Lindsay and coworkers32 and Mc Gillivary14 have more recently illustrated the naivety of persons with intellectual disabilities in terms of sexuality before any sex education. Parents’ counseling and global approach of patient’s reproductive health concern also constitute two essential issues. Indeed, many caregivers or clinicians fear that an approach of reproductive health problems restricted to pregnancy prevention could constitute a risk of sexual abuse and STI transmission, since the patients could wrongly be considered as “presenting no risk for sexuality” by her parents or guardians.5,13,16,20,26,33

While persons with intellectual disability constitute potential targets for sexual abusers, they may also commit sexual offences or abuse.35 Potential risk factors, such as personal experience of sexual abuse as victim,39 impulsiveness,37 or low anxiety38 have been identified by the same group of authors. It seems that sexual abuse is particularly frequent among people with fetal alcohol syndrome.39 Different social factors and increased prevalence of the risk factors described above could contribute to this high occurrence of sexual abuse in fetal alcohol syndrome. Even if much more
frequent among males, sexual abuse is not limited to them. Indeed, characteristics and outcome of women with intellectual disability who committed sexual abuse have been described recently. In this study, it appears that the prevalence of previous sexual abuse as victim and associated mental illness is especially high (61% and 67%, respectively). Level of re-offending seems lower in female than in male offenders, and depends on the length of treatment.41

Prevention of STI

Despite the overall lower sexual activity of persons with moderate and severe intellectual disabilities, different risk factors for STI have been identified in them. First, people with intellectual disability constitute potential victims of sexual abuse, as described above. Virgin cleansing, the wrong belief that people who have a STI can rid themselves of the condition by transferring the infective organism through sexual intercourse with a virgin, targets women with intellectual disability, who are assumed to be virgins. Smith reported that brothels in Victorian England were “stocked with intellectually disabled ‘virgins’ because it was believed that a syphilitic man could lose the infection by having sex with them”. However, figures lack to determine the role of such practice in the spreading of STI amongst persons with intellectual disabilities. In developing countries, the poverty of mildly disabled women and the social sanction against marrying a disabled person may lead these women to be involved in a series of unstable relationships. Low levels of knowledge about STI transmission may also contribute to increase the vulnerability of people with intellectual disability. For instance, Mc Gillivray reported that 68% of the 60 mildly/moderately disabled persons she interviewed about AIDS knowledge believe that taking oral contraceptive agents lowers the risk of contracting AIDS, and that one only gets AIDS if unlucky. Finally, homosexuality is commonly reported amongst persons with intellectual disabilities, but nothing indicates that it is more frequent than in the overall population. Moreover, from a survey of 19 men with intellectual disability who had been engaged in a homosexual relationship and who were referred to a Sex Education Team in England, Thompson concluded that the participation of men with intellectual disability in a homosexual relationship was for reasons other than sexual satisfaction.

Most frequent and severe diseases that may be transmitted through sexual intercourse, such as AIDS or hepatitis B, may also be transmitted through minor blood exchange. Therefore, the prevalence of these STI amongst persons with intellectual disabilities not only results from their sexual activity or potential sexual abuse, but also from the exchange of infected material that may occur from naivety. Transmission of the infective agent may also result from blood effusion caused by behavioral trouble such as aggression or self-mutilation. In addition, because of immunological impairment, patients with Down syndrome are a risk group for hepatitis B virus (HBV) infection and frequently suffer from chronic infection. They constitute therefore a potential risk for the institution where they live. Given its severity and its prevalence, hepatitis B is the first STI to consider in persons with intellectual disabilities. In a study conducted in a Danish institution, Lund and coworkers described the serological prevalence of hepatitis B in 126 persons with intellectual disabilities, 20 of them had Down syndrome. They found that 55% of people with Down syndrome were anti-HBC-positive (which indicates a previous contact with the virus) and 30% were HBsAg-positive (which indicates ongoing infection). These figures were 32 and 3.8% respectively, among other residents. In other studies conducted in institutionalized patients since 1990 in Brazil, Belgium, England, Spain, New Zealand, or South Africa, prevalence of hepatitis B serological markers varied from 12 to 61%, with increased rates amongst patients with Down syndrome. One study conducted in 41 institutionalized patients in Finland found a much lower rate of 2 per cent. In a cross sectional study conducted in a residential institution for intellectually disabled in New Zealand, Stehr-Green and coworkers demonstrated that residents’ risk of being infected increased by 17% for each additional year they had lived in this institution. In outpatients, seroprevalence is lower, between 9.3 and 11%, especially in children where it is estimated to be between 4 and 19.4%. One study failed to point out any significant differences between outpatients with Down syndrome and a global population control group.

At the beginning of the 90’s, different studies conducted to assess AIDS prevalence amongst intellectually disabled people failed to detect any cases. However, through a national survey mailed to departments providing services to persons with intellectual disabilities in the USA, Marchetti and coworkers reported 45 persons with intellectual disabilities infected with HIV and seven who were symptomatic. The same authors conducted a follow-up study two years later and reported 98 cases for the same population surveyed. Surprisingly, another national survey mailed to state residential facilities in 2003 failed to detect any case of AIDS among persons with intellectual disabilities. Since it should be surprising that intellectually disabled people in USA would be the sole population in
the world where AIDS would have been completely eradicated, this accurately points out the limitation of the methodology that consists in mailing questionnaires to institutions’ directors in regards to such a delicate issue. In Europe, different studies reported cases of AIDS in institutionalized patients since 1996. Ramos-Ibanez and coworkers reported 84 patients with intellectual disability in Castille and Leon (Spain) with a positive serology for HIV. From a mail-survey with a design similar to the American studies described above, Diederich and Gracen reported that 11% of French institutions had once been confronted with AIDS in one of their residents. These results are difficult to interpret, as it is impossible to infer from them an even approximate prevalence rate.

Huovinen found that pelvic inflammatory disease and condylomata acuminata were less frequent in intellectually disabled than in controls and attributed this difference to a lower sexual activity in the group of disabled patients. Other STI such as genital herpes or syphilis seem to be very rare. In 2005, the sole STI that may be prevented otherwise than through sex education is hepatitis B. Indeed, hepatitis B prevention may be achieved by immunization of caregivers and persons with intellectual disabilities, especially if Down syndrome constitutes the origin of disability. The immunization of persons with intellectual disabilities should also be achieved, even when the contact between the patient and his/her family is limited to weekend and/or holiday time, since relatives of seropositive patients present a 7.6 times higher risk to present a seroconversion than relatives of seronegative inpatients. Such immunization programs have already been successfully conducted. For instance, Vellinga and coworkers have tested the long-term effectiveness of hepatitis B vaccination in 105 institutionalized persons with intellectual disabilities. After 11 years, only two patients seroconverted to anti-HBc positivity without becoming carriers or ill, which demonstrates the efficacy of systematic immunization in institutionalized patients with intellectual disability. It seems that such systematic immunization program should target children before school entrance. Indeed, a study conducted in a Spanish school for intellectually disabled children demonstrated that the duration of stay at school since the initial entrance constitutes a risk factor for hepatitis B infection. This strongly suggests that to achieve a maximum efficiency, immunization should be performed as soon as possible, ideally before school entrance, especially if the origin of handicap is Down syndrome. The efficacy of immunization through anti-HBc titration should be carefully checked, especially in male or older people with Down syndrome, who seem to present a lower response to standard immunization.

Condom use by persons with intellectual disabilities requires adapted sex education, since a large majority (87% in the study of Mc Gillivary) of persons with intellectual disabilities have nil or minimal understanding of how to use a condom correctly. In a recent survey conducted in 115 of the 168 residential facilities for individuals with intellectual disability in the USA, Gust and coworkers reported that 28% of directors of facilities with fewer than 50% of profoundly disabled persons considered that the use of condom by the patients occurred “sometimes” and 2% “often”. Different educative programs have been proposed in this purpose. Whether these programs may efficiently lead to significant behavioral change in the real life is difficult to ascertain. Lindsay and coworkers have demonstrated that theoretical notions acquired during a sex education program may be consistently understood and retained by the majority of adults with a mild or moderate deficiency. The availability of such programs in the facilities for persons with intellectual disabilities is increasing through the years. In the study of Gust and coworkers, all directors affirmed that mildly disabled patients were offered sex education, whereas 84% and 63% of the directors answered “yes” to the same question regarding moderately and severely disabled patients, respectively. From the same survey, it appears that condoms were available at the institution health clinic in 61% of the facilities.

**Prevention of unwanted pregnancy**

To discuss the potential risk for the persons with intellectual disabilities’ offspring is far beyond the scope of this review. This risk exists, and largely depends on the origin of the disability, the ability of patients to raise a child and the social support that they may receive in this task. Medical attitude towards or against child wishing of persons with intellectual disabilities is largely driven by personal ethical consideration, but also by the legal context. Thus, this chapter will deal with the prevention of unwanted pregnancy. It must be noted that desired pregnancy is not a common event in persons with intellectual disabilities. Chamberlain and coworkers reported six cases in their 84 patients studied. Huovinen reported that the number of pregnancies in a series of 255 intellectually disabled women was 118 times lower than in a group control of women without intellectual disability. In the 300 women series published by Mc Neely and Elkins, only two had previously delivered. In the national survey of Gust and coworkers only 2.8% of the responding directors reported that pregnancy oc-
curred once in their institution. Finally, in our study, only 1% of patients had been previously pregnant.

Except for some genetic syndrome, most of intellectual disability origins do not impair fertility per se. Fertility is decreased in Down’s syndrome since paternity is exceptional and pregnancy remains very rare. Other syndromes including hormonal problems or hypogonadism, such as Prader-Willi syndrome, have impaired fertility, even if anecdotic cases of pregnancy have been reported.

Most data concerning the contraception of intellectually disabled women refer to population attending a same gynecologist or clinic and therefore essentially reflect the practice of the gynecologist or clinic. Mail-surveys have also been conducted, where institutions’ directors have been asked to estimate how often the different contraceptive methods are used in their institutions. At the individual level, these data are difficult to interpret and cannot help to understand the factors that are associated with the use of one method or another. Therefore, we conducted a population-based study that assessed the contraceptive methods used by intellectually disabled women attending state-funded facilities and the different factors associated with an increased or decreased use of these methods. Overall, we found that 40.8% of intellectually disabled women did not use any contraceptive methods, whilst 22.2% were sterilized (nearly all by tubal ligation), 18% used oral contraceptive agents, 17.6% used DMPA and 1% had an intrauterine device. Very few factors, and actually none of the medical ones (age, seizures, overweight, inductive drugs intake, tobacco consumption, etc.) were correlated with an increased use of one method or another. Being sterilized was strongly dependent on institutional policy concerning contraception and sexual relationships, but was not correlated with the age of the persons, as it is in the general population. In another study covering a smaller but different population of adult intellectually disabled women, we even found an inverse relationship between age and sterilization prevalence.

Contraceptive management is a medical act. Therefore, medical indications and contra-indications should be respected in priority when prescribing contraception to an intellectually disabled woman. For instance, oral contraceptive agents should be used cautiously in women older than 35, especially if overweight or tobacco consuming. With the notable exception of periodic hygiene management, contraception should be considered as a medical attitude to prevent unwanted pregnancy in women potentially having consensual sexual intercourse. In this view, the pertinence of tubal ligation in profoundly disabled women with severe associated motor impairment remains to be demonstrated, as well as for every woman who is not likely to engage in consenting sexual intercourse. Different factors specific to the intellectually disabled person may influence the choice of a given contraceptive method. We already evoked periodic hygiene management. Poor medical compliance, especially when associated with behavioral and/or psychiatric problems may question the efficacy of oral contraceptive agents. However, many intellectually disabled adults receive daily oral medication (45.8% in our study), that they take themselves or that is administered by a parent or caregiver. In this case, the compliance to oral contraceptive agent should not be considered. Another specificity of the persons with intellectual disabilities resides in the high prevalence of epilepsy. In our study, 26.4% of intellectually disabled women received daily anti-seizures medication. DMPA is currently reported to contribute to epilepsy stabilization, but evidence has, to our knowledge, not yet been reported. Amongst women treated for epilepsy, 74% daily received drugs that induce cytochrome P450 (carbamazepine, for instance), which reduces the efficacy of oral contraceptive agents. This should also be considered when initiating contraception in an intellectually disabled woman who suffers from epilepsy. Finally, abdominal surgery should be cautiously used in women with associated motor impairment, because of the increased frequency of postoperative complication.

General gynaecological care

With some minor exceptions, intellectual disability does not lead by itself to specific gynaecological morbidity. Obesity and thyroid dysfunction, two common features in Down syndrome, may lead to anovulatory bleeding or frank menorrhagia. However, when comparing 15 adolescents with Down syndrome and 33 age-matched controls, Goldstein did not find any significant difference in cycle length or duration of bleeding between groups. Specific medical attitudes induced by the intellectual disability of the patients are likely to lead to a specific clinical picture. Because of the frequency of progestin intake by intellectually disabled women in Finland (to induce therapeutic amenorrhea), Huovinen reported an increased incidence of small uterus at pelvic examination in these patients when compared to a control group, but also fewer infections and tumors of all kinds in the group of persons with intellectual disabilities. Significant physical handicaps associated with intellectual disability, such as seizures, cerebral palsy or orthopedic problems significantly increase the risk of developing postoperative complications. In addi-
Sexuality and intellectual disability

In conclusion, to support persons with intellectual disabilities' expectancies towards sexuality requires an evaluation of these expectancies and of the different patients' needs in the areas of contraception, hygiene management, sex education and STI or rape prevention. This may be achieved in specific facilities when available, but also by any gynecologist or general practitioner aware of the specificity of this population and working in collaboration with educative staff and parents to provide a global approach of sexual health concerns.

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