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It is more than just a reproductive healthcare visit: Experiences from an adolescent medicine clinic

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Abstract: The gynecologist may be the only physician that an adolescent depends on for primary and reproductive healthcare services. Because adolescent females often make personal healthcare decisions without the benefit of supportive parents/caregivers, it is imperative that the gynecologist understands the developmental issues encountered during this phase of life. The objective of this study is to identify cited complaints of adolescent females seeking reproductive care and, thus, provide gynecologists with needed information about the medical/mental health issues that may be encountered during routine reproductive care exams. The study group was adolescent females between the ages of 12 and 20 years old. The medical records of 479 adolescent females seeking reproductive care from an adolescent medicine clinic at a southeastern teaching medical center were reviewed to determine the most frequently cited medical/mental health complaints of adolescent females initiating a "routine" gynecological exam. Results indicated that adolescent females present for "routine" reproductive care exams with a myriad of concerns without formally requesting medical/mental health intervention upon initial presentation. The identified primary healthcare needs of adolescent females seeking reproductive healthcare include: 1) issues related to reproductive dysfunction (60%); 2) gastroenterological pain/issues (15%) 3) mental health issues (15%) and 4) general medical physical complaints (10%). Gynecologists are often asked to serve as a primary care provider as well as a reproductive healthcare specialist. Identification of the specific healthcare needs (reproductive and otherwise) of adolescent females will assist gynecologists in being uniquely prepared to practice in the setting of their choice.

Keywords: Adolescent reproductive care, adolescent medicine, adolescent gynecology

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INTRODUCTION

An increased awareness of gynecological healthcare among adolescents has resulted in additional females seeking this type of care. Yet, the exact location where adolescent reproductive care is provided within hospitals and clinics is often unclear. General pediatric clinics may be unequipped

or staffed inappropriately to effectively address the gynecological needs of adolescents, and many pediatricians lack confidence in their ability to treat adolescents (1). Gynecology, internal medicine, and family practice physicians may find adolescent medicine outside their area of expertise. Furthermore, adolescent healthcare may be

considered too time-consuming to be managed in a private practice setting (2-4). Finally, adolescents may find visits with non-pediatric practitioners to be unwelcoming and insufficient (5).

Primary care physicians provide most of the reproductive health care services for adolescents (6). For those not seen in primary care clinics, the gynecologist may be the only physician with whom an adolescent has a relationship and therefore needs both primary and reproductive care. Ideally, parents play an integral role in assisting their daughters to manage their own healthcare. In the case of reproductive issues, there are times when parental involvement is detrimental to care, and confidentiality becomes paramount from the perspective of the adolescent. Parents may be completely unaware of the reproductive health care needs of their daughters. In fact, adolescent patients often avoid seeking appropriate care or break the continuity of care with a physician, particularly for reproductive health needs, unless an assurance of confidentiality is provided (7). Adolescents are also more likely to discuss sexually transmitted diseases, pregnancy prevention, and other sensitive topics when confidentiality is assured proactively by their gynecologist (8). Because young females are often making healthcare decisions without the benefit of supportive parents/caregivers, that the gynecologist understand the range of medical/mental health issues presented during a reproductive exam is imperative.

Adolescent reproductive care

Encouraging adolescent females to seek and continue to obtain reproductive healthcare is an important issue for gynecologists and primary care physicians alike. Even though great strides have been made in detecting and treating such cancers as cervical cancer

among adolescents, the risk remains. The relative risk for cervical cancer is 0.25 to 0.37 in women screened through Pap smears compared with those who have never been screened (9-10). The rates of abnormal cervical cytology are high among young women in the United States; a Centers for Disease Control and Prevention report found that in women under age 30, 8.3% of first-round Pap tests showed ASCUS, 9.4% LSIL, 2.7% HSIL, and less than 0.1% squamous cell cancer (11). Sexually active adolescent girls may be at even higher risk for developing cervical dysplasia because of early coitarche, increased numbers of sexual partners, higher incidence of sexually transmitted infections, higher rates of smoking, and vulnerability of the adolescent cervix to the acquisition of sexually transmitted disease and initiation of carcinogenesis (12).

In addition to the myriad of sound medical reasons why all female adolescents should have reproductive health care, it may be that impoverished females are especially in need of this type of care. Indeed, certain evidence indicates that pre-adolescents and adolescents enrolled in Medicaid and seeking reproductive health services have an elevated likelihood of sexual abuse or engagement in criminal behavior, both before and after their reproductive health visits (13). In logistic regression analyses that controlled for age at Medicaid enrollment, length of enrollment, and demographic factors, adolescents with a reproductive health claim were more likely than other Medicaid enrollees to be referred for any reason to child protective services (odds ratio, 2.9) or to have experienced physical (1.6) or sexual abuse (2.3) during the study period (13). The odds of physical abuse were especially elevated among young women who had undergone an abortion (2.3); those who had received

pregnancy care had particularly high odds of sexual abuse (3.2). One-fourth of referrals for physical or sexual abuse exams were made within the month preceding or following the young women's first claim for reproductive health services; 60% were made within 6 months before or after the claim (13). These findings may not be generalized to preadolescents or adolescents who are ineligible for Medicaid because poverty may increase a young woman's risk of abuse, criminal activity, and early sexual initiation. Factors such as ethnic makeup and the availability of services in a particular community could also affect outcomes for young women.

Adolescent mental health care

Studies have shown that greater than 20% of adolescents in the general population have emotional problems, and one-third of adolescents attending psychiatric clinics suffer from depression (14-16). Moreover, the suicide rate for adolescents has increased more than 200% over the last decade (17). Adolescent suicide is now responsible for more deaths in youths aged 15 to 19 years than is cardiovascular disease or cancer. Despite this predominance, mood disorders among adolescents are greatly underdiagnosed, leading to serious difficulties in school, in work, and in personal adjustment, which may continue into adulthood.

Anxiety disorders are among the most common mental, emotional, and behavioral problems to occur during childhood and adolescence. About 13 of every 100 children and adolescents from age 9 to 17 experience some kind of anxiety disorder; girls are affected more than boys (18). About half of children and adolescents with anxiety disorders have a second disorder or other mental or behavioral disorder, such as depression. In addition, anxiety disorders can coexist with physical health conditions

requiring treatment (18).

METHODS

After receiving approval from the university research institutional review board, the researchers reviewed the charts of 479 adolescent females, who received reproductive care at an adolescent medicine clinic located in a southeastern teaching medical center to determine the specific medical/mental health complaints presented at the time of a routine gynecological exam. The adolescent patients requested a "routine gynecological exam", when making the original appointment without identifying other medical or mental health issues. A routine gynecological exam may include pelvic exams and/or pap smears depending upon the needs of the patient.

Two data analysis programs were used to analyze the data. nVivo (Version 7), a qualitative data analysis program, was used to analyze the content of the medical notes written by the attending physician and resident(s) assigned to the adolescent medicine clinic. No significant differences in the content of the resident notes versus those of the attending physician were found. Demographic data, including the respondents' age, dates of initial reproductive exam, as well as any follow-up reproductive exams were noted. An examination of residents and attending physician medical notes provided detailed explanations of the complaints that arose during the examination. The Statistical Package for the Social Sciences (Version 15) was used to analyze quantitative data and the results are presented below.

RESULTS

Four hundred seventy-nine retrospective medical chart reviews were completed. The age range of the patients examined was 12-20 years of age with the majority (80%)

Table 1. Age distribution of female adolescents seeking routine reproductive health care

Age	Total (%)
12-14 years	38 (8)
14.1-16 years	129 (27)
16.1-18 years	254 (53)
18.1-20 years	58 (12)
Total	479 (100)

Table 2. Distribution of primary medical/mental health complaints reported by the participants (N = 479)

Medical/Mental Health Complaint	Total (%)
Reproductive Dysfunction	287 (60)
Gastroenterological Pain/Issues ¹	72 (15)
Mental Health Issues ¹	72 (15)
General medical complaints	48 (10)
Total	479 (100)

¹ e.g., constipation, diarrhea, nausea, vomiting

between 14 and 18 years of age. The age distribution is presented in table 1.

The categories of complaints included the following:

- Medical concerns related to a gynecological condition—pregnancy, sexually transmitted infections, rash(es), abnormal pap smears, cervical dysplasia, amenorrhea, dysmenorrhea
- Medical concerns unrelated to a gynecological condition—diabetes, hypertension, allergies, asthma, acne, sports injuries

The younger the age of the patient, the more likely that the exam was categorized as 'initial, although 3% (n = 14) of the

sample had a prior history of sexual abuse and required consistent follow-up for the resulting gynecological issues. Such patients were eliminated from the study as their gynecological exams could not be considered routine.

- Mental health concerns unrelated to any medical condition—Mood disorders, anxiety, body image issues, self-esteem issues
- Mental health concerns related to an associated medical condition—depression secondary to chronic illness, body image issues, self-esteem issues related to obesity, Hyperandrogenism Insulin Resistance Acanthosis Nigricans (HAIR-AN) syndrome

Table 2 shows that the majority of female adolescents reported some type of reproductive dysfunction (60%) as their primary complaint, whereas 10% of the participants, even though the original appointment requested was a 'routine' gynecological exam, had general medical complaints that were not associated with specific gynecological issues. Of the sample, 15% reported primarily experiencing untreated/undertreated mental health issues and requested medical intervention. Many of the same patients reported gastrointestinal pain or related issues (i.e., constipation, diarrhea, nausea and/or vomiting). See table 2 for additional details.

In reviewing the 479 medical charts, 1,496 complaints were noted, as categorized earlier. The majority (83.1%) of adolescents complained of two to five medical/mental health needs that required physician attention, whereas 71 females (15%) reported more than five unmet medical/mental health needs. Only nine (.019%) participants voiced "no medical/ mental health complaints". See table 3 for a summary of the data.

Table 3. *Distribution of all medical/mental health reported complaints (N = 479)*

Medical/Mental Health Complaint	Total (%)
Reproductive Dysfunction	988 (66)
Gastroenterological Pain/Issues ¹	182 (12)
Mental Health Issues ¹	247 (16)
General medical complaints	79 (6)
Total	1496 (100)

¹ e.g., constipation, diarrhea, nausea, vomiting

DISCUSSION

Primary health care, as well as reproductive care, are essential components of a comprehensive medical program for adolescents. Physicians of varied specialties provide primary care, but the gynecologist is often the one that the female adolescent primarily depends on for all types of medical care. Therefore, it is essential that gynecologists consider themselves primary care providers as well as reproductive care specialists in certain circumstances. The analogy of the gynecologist as primary care provider is consistent with the study by Horton et al in 1993 (15), which found that more than half of American College of Gynecologists (ACOG) Fellows provided primary and preventive care during more than half of their practice time.

Clearly, gynecologists continue to be the experts on adolescent reproductive health because the majority (60%) of the participants requested reproductive care. The participants also cited, however, a variety of medical/mental health issues that were not addressed in other healthcare settings. The reasons for numerous unmet medical/mental health needs are complex and varied. Preadolescents and adolescents that are under-insured or uninsured and encounter barriers to receiving appropriate

healthcare may certainly be included in this group of under-served young patients. In addition, the lack of adolescent medicine specialists, as well as an increase in risk-taking behaviors that result in higher levels of patient acuity, may lead to lower levels of primary care provision. All these health related issues deserve additional systematic analysis as they relate to adolescent reproductive care.

The results of this study indicate that adolescent females often assume that in addition to reproductive health care, their gynecologist will be able and willing to address a variety of other medical and mental health issues. Although not all gynecologists express a desire to practice primary care, that gynecologists carefully evaluate the type and scope of the practice in which they plan to work is imperative.

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