Care of Adolescent Parents and Their Children

ABSTRACT. Many children live with their adolescent parents, alone, or as part of an extended family. This statement updates a previous statement on adolescent parents and addresses specific medical and psychosocial risks to adolescent parents and their children. Challenges unique to the adolescent mother and her partner, as well as mitigating circumstances and protective factors that have been identified in the recent literature, are reviewed, along with suggestions for the pediatrician on models for intervention and care.

Adolescent parents and their children represent populations at increased risk for medical, psychological, developmental, and social problems, as previously described. In 1997, there were 489,210 live births to 15- to 19-year-old females in the United States. The myriad concerns associated with adolescent pregnancy and potential obstetric and perinatal complications are summarized in a separate statement. Prevention of adolescent pregnancy and identification of factors that improve outcomes for parenting adolescents and their offspring are gaining increased visibility as the numbers of younger adolescents in our population are increasing.

MEDICAL AND PSYCHOSOCIAL RISKS TO THE ADOLESCENT MOTHER

Medical complications associated with adolescent pregnancy include poor maternal weight gain, anemia, and pregnancy-induced hypertension. These complications seem to be the greatest for the youngest adolescents. Poverty, lack of education, and inadequate family support seem to contribute to a lack of adequate prenatal care, which may account for the majority of negative health outcomes for the adolescent mother and her child. There is growing evidence that pregnant adolescents are at increased risk for domestic violence. Younger adolescent mothers are more likely to be single parents and to receive no prenatal care or care only during the third trimester. These mothers are also less likely to finish high school.

Developmentally immature adolescent mothers may put more time and energy into their relationships with partners than with their children and have less knowledge about child development and appropriate parenting practices, increasing the risk of child neglect or maltreatment. Although pregnant adolescents have been shown to decrease their use of alcohol, cigarettes, marijuana, and crack cocaine during gestation, the use of cigarettes and alcohol, in particular, has been shown to increase steadily during the first 6 months postpartum. The tendency of the adolescent mother to reduce substance use during pregnancy may provide a window of opportunity in the immediate postpartum period for the clinician to emphasize healthy choices by the mother.

RISK OF REPEAT ADOLESCENT PREGNANCY

Repeat births in adolescents have been linked to decreased educational achievement, increased dependence on governmental support by the adolescent mother, increased infant mortality, and low birth weight. These negative outcomes result in increased societal expense and contribute to the continuation of the adolescent pregnancy cycle. In contrast with adult women who seek care earlier in a second pregnancy, adolescents with a repeat pregnancy tend to delay care. A repeat or second pregnancy occurs in 35% of adolescent mothers within 2 years of the first birth, with 17% of those adolescents going on to deliver a second child in that time frame.

Several factors are associated with repeat adolescent pregnancy. Risk factors for repeat pregnancy within 18 months of a previous birth include the following: 1) not returning to school within 6 months; 2) being married or living with a male partner; and 3) receiving major child care assistance from the adolescent’s mother. An adolescent who drops out of school may choose to remain at home in a parenting role, reflecting a conscious decision not to return to school in the near future, if at all. Significant amounts of child care assistance by the adolescent’s mother increase the likelihood of repeat pregnancy, perhaps by not allowing the adolescent daughter to shoulder the true responsibilities and challenges of parenthood. While the grandmother’s participation in the care of the infant may ease an adolescent’s transition to parenthood by providing child care instruction and assistance, this support may complicate the adolescent’s ultimate transition to parenthood with the establishment of an independent household.

Because adolescents themselves often report that their second pregnancies are intentional, repeat pregnancy prevention programs need to focus on defining and supporting an adolescent’s educational goals and on providing motivations for delaying a second pregnancy. Knowledge and access to contraceptive

PEDIATRICS Vol. 107 No. 2 February 2001 429
services alone will not decrease repeat pregnancy rates.⁶ Cultural norms for extended family roles in child rearing or for early parenting may vary. Not all ethnic or cultural subpopulations in the United States share the dominant cultural assumptions about adolescent childbearing. The use of long-acting contraceptive methods, such as subdermal levonorgestrel implants or depot medroxyprogesterone acetate, is associated with significantly lower rates of pregnancy than is the use of oral contraceptives.¹⁷–¹⁹ Programs that help adolescent mothers return to school combined with intensive psychosocial postpartum care tend to successfully prevent early repeat pregnancy.²⁰

**FACTORS ASSOCIATED WITH IMPROVED OUTCOMES FOR ADOLESCENT MOTHERS**

Several studies in the literature address the outcome of adolescent parenting. A 20-year follow-up study of adolescent mothers from the late 1960s defined long-term success as high school completion and employment or support by a spouse at the time of follow-up.²¹ Factors positively associated with this definition of long-term success included having completed school before becoming pregnant, active participation in a program for pregnant adolescents, remaining in school with no subsequent pregnancy at 26 months postpartum, a sense of control over one’s life, little social isolation, and having only 1 or 2 subsequent children after the first adolescent pregnancy.²¹

Another study involving a 17-year follow-up of African American adolescent mothers documented that the universally negative outcomes for the mothers previously suggested in the literature were not substantiated.²² More than two thirds of the women in that study had completed high school, had regular employment, and were not dependent on the government for income. In contrast, however, their offspring displayed greater rates of difficulties at school and behavioral problems at home than did the offspring of adult mothers.²²

Family factors associated with improved outcomes for the adolescent mother include early child care for the infant of the very young adolescent mother provided by the infant’s grandmother, family support that allows the adolescent to finish school, playful interaction between infant and father, and stability of marital status.²³ The mere presence of the father did not improve outcomes for the adolescent mother.⁶ Initially, adolescents living with their parents had children with improved outcomes; however, problems occur with older adolescents when the adolescents or their mothers want to renegotiate family responsibilities.⁶ Such conflicts can have a negative effect on the quality of the home environment for the child. The complexity of this issue is only beginning to emerge, with a fine balance between appropriate child care assistance from the grandmother and baby’s father and their giving so much “help” that repeat pregnancy occurs.

**FATHERS OF INFANTS BORN TO ADOLESCENT MOTHERS**

Of pregnancies to an adolescent mother, 30% to 50% involve a father younger than 20 years at the time of the child’s birth.²⁴ Therefore, there are fewer adolescent fathers than adolescent mothers. Adult men who father a child with an adolescent girl tend to be more socioeconomically and psychologically similar to adolescent fathers than to adult men who father a child with an adult mother.²⁵

Adolescent fathers are more likely to live in poverty, with adolescent fatherhood, like adolescent motherhood, often repeated from one generation to the next.⁶,²⁶ Adult men who father children with adolescent mothers are also more likely to be impoverished.⁶ One study found that 64% of unwed fathers ages 19 to 26 years lived with a parent or close relative, most likely reflecting low socioeconomic status.²⁷ Although more than 80% of unwed fathers in their late teens and early 20s live away from their children, from one third to one half of these fathers visit their children weekly.²⁷ Some fathers may be incarcerated and, therefore, unavailable or unable to be involved. One study found that at least 30% of fathers of children born to adolescent mothers were in jail.⁶

Although social support in general correlates positively with improved outcomes for adolescent mothers, support by the father has been linked with increased maternal risk for not completing school.²⁸ However, partner support has been related to decreased distress and depression in the adolescent mother, along with improved self-esteem.²⁹ Marital status improves socioeconomic status for adolescent mothers, but a paucity of long-term marriages exists in this population.⁶ Most marriages precipitated by pregnancy in the adolescent age group end in divorce.⁶ Single status for the mother at 5 years postpartum has been associated with a threefold increased risk of receiving governmental assistance, at least in the short term.²⁸

**MEDICAL AND PSYCHOSOCIAL RISKS TO THE INFANT**

Infants of adolescent mothers have an increased incidence of low birth weight, prematurity, developmental disabilities, and poorer developmental outcomes than the offspring of older mothers.²²,³⁰ Deficits in cognitive and social development in the children of adolescent mothers may persist into adolescence.³⁰,³¹ Compared with older mothers of similar parity and socioeconomic status, adolescent mothers tend to vocalize, touch, and smile at their infants less, to be less sensitive to and accepting of their infants’ behavior, and to hold less realistic developmental expectations.³² Adolescent mothers who have more social support exhibit less anger and use less punitive methods of parenting than adolescent mothers with fewer social supports.³³

As with an older mother, an adolescent’s attitude toward parenting influences her parenting style; mothers who place inappropriate expectations on the child are likely to use harsh and rejecting discipline
strategies. Such strategies are linked with child anger, low self-esteem, and social withdrawal. Furthermore, mothers with intense feelings of inadequacy and failure in the parenting role tend to withdraw emotionally and physically from the infant. This withdrawal has been linked to angry and resistant infant behaviors and troubled mother-child relationships.

Adolescent mothers, particularly younger adolescents, may lack the maturity and skills necessary for giving appropriate infant care. Maternal substance use before and after delivery may further affect infant development owing to physiologic or anatomic changes in the infant’s brain or the parents’ ability to nurture appropriately. Maternal age alone has not been shown to be a risk factor in sudden infant death syndrome, injuries, child abuse, or infections; factors such as substance abuse and socioeconomic status do appear to have a role. One study found that the rare occurrences of infant homicide, which tend to occur during the first 4 months of life, are associated with having an adolescent parent, especially one who has given birth previously.

CHILDREN AND YOUNG ADULT OFFSPRING OF ADOLESCENT MOTHERS

During the first 3 to 4 years of life, the anatomic brain structures and physiologic response patterns that determine a child’s learning processes, coping skills, and personality traits become established, encoded, and strengthened. These neuronal structures have the potential to atrophy if unused. Negative environmental conditions, including lack of stimulation or close and affectionate interaction with primary caregivers, child abuse, violence within the family, or even repeated threats of physical and verbal abuse during these critical years can have a profound influence on these nerve connections and neurotransmitter networks, potentially resulting in impaired brain development. Since adolescent mothers may not be trained in appropriate stimulation techniques and may be coping with stress in their own lives, ongoing education and support by the pediatrician and other nurturing adults is imperative to help prevent negative sequelae in their offspring.

Children of adolescent mothers who continue to have close ties with the child’s biological father have better outcomes in employment and education, are less depressed, and are at less risk for adolescent parenting themselves. However, children of adolescent parents, with or without paternal involvement, remain a group at risk, with a 33% rate of school dropout, 31% incidence of depression, 16% incidence of incarceration, and a 25% risk of adolescent parenthood.

Adolescent or adult fathers who maintain active participation in the prenatal, neonatal, and immediate postpartum processes with an adolescent mother have a greater likelihood of ongoing involvement with their children. Such interactions include playing with their children, giving them gifts, or feeding them but are less likely to involve diapering, bathing, and caring for the child alone. Parenting interventions can help teach such skills to adolescent fathers, as well as to adolescent mothers. Several successful father programs exist, and all adolescent parenting programs should make a more concerted effort to engage the fathers.

MODELS OF INTERVENTION FOR ADOLESCENT PARENTS

Many models of intervention and support for adolescent parents exist. These programs predominately have focused on adolescent mothers and their children. Not all programs have been evaluated rigorously.

School-Based Programs

Specialized school-based programs can provide a means of providing multidisciplinary services to pregnant and parenting adolescents while keeping them in school. A student’s prepregnancy academic achievement affects the outcome of such interventions; low-achieving students require longer and more intensive interventions than do students who are doing well academically before pregnancy. For the marginally achieving student, specialized educational programs with a small student-teacher ratio can foster a sense of achievement and help the adolescent feel capable of completing school. The concept of a “school-within-a-school,” or consistent peer group placement within a larger school, has been useful for academically challenged pregnant and nonpregnant adolescents. Getting the parenting adolescent back to school remains a key element for long-term success for the adolescent and her child. Quality school-based child care programs facilitate the participation of the adolescent in school, provide support and education to the parent, and can assist in improved health and development in their children.

Multidisciplinary and Non–School-Based Programs

Multidisciplinary programs provide medical care, psychological support, and a comprehensive life skills approach to adolescent parents. These programs have shown that participating female adolescents are more likely to be employed, work more hours, earn more money, and report a better home environment at 5 years after the intervention than socioeconomically matched adolescents in cities without this comprehensive approach. These adolescents were also less likely to be receiving Aid to Families With Dependent Children (now relabeled as Temporary Assistance to Needy Families, or TANF).

Teen Tot programs (in which adolescent parents and their children receive care simultaneously) have been developed in many medical centers and ambulatory clinic settings to provide structured medical visits and support. Such use of time and space creates access to multidisciplinary services. When all visits are scheduled in a clinic on a consistent day each week, teaching sessions specifically addressing adolescent parenting issues can be timed with clinic visits. This model for care often provides the adolescent with a peer support group.
Peer Group and Role Model Programs

Using adolescent parents as role models may enhance self-efficacy in the adolescents serving as instructors and in adolescents being instructed about parenting. Innovative approaches have shown promise in enhancing parenting skills of adolescent mothers using technology and the media. From a developmental perspective, use of peer groups makes sense in getting a message across. Unfortunately, there is no evidence that peer group and role model programs effectively reduce adolescent pregnancy or improve adolescent parenting skills. Many programs still use this technique. In the future, positive outcome data may become available. Programs such as Head Start and Early Head Start are designed to address the needs of both parent and child. Prenatal and early childhood home visitation has been associated with reduction in the number of subsequent pregnancies, use of governmental assistance, child abuse and neglect, and criminal behavior in the adolescent mother. These visitations also have been associated with reduced risk of serious antisocial behavior and substance abuse by adolescent offspring followed up during the first 15 years of life.

Special Education Initiatives

Low intellectual ability or functioning is a serious risk factor for adolescent pregnancy. Adolescents in some special education programs become pregnant in disproportionate numbers and drop out of school at earlier ages than adolescents in regular education. School-based care for these adolescents should include sexuality education and discussions on safety for the adolescent mother and her child. These discussions should focus on self-efficacy and assist her to acquire decision-making and concrete, task-oriented skills. This task-centered approach also can be used to strengthen the adolescent’s ability to access external support systems and to develop supportive family relationships, which directly and indirectly can improve the adolescent’s self-esteem. Such programs can successfully integrate higher functioning, older adolescents with mental retardation with younger adolescent mothers with normal intelligence. The focus on concrete life skills can benefit both groups.

RECOMMENDATIONS

1. Pediatricians should provide continuity of care and a “medical home” for adolescent parents, as well as for their children. Specific attention to anticipatory guidance, early childhood education, and the teaching of basic care-giving skills should include the adolescent mother and the infant’s father, when possible.

2. Care for parenting adolescents should be multidisciplinary and comprehensive using community resources, such as social services and the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC). Early Periodic Screening, Diagnosis, and Treatment (EPSDT) and Title XXI should be used to include medical and developmental services to low-income adolescent parents and their children. The pediatrician should facilitate coordination of these varying services.

3. The pediatrician should help promote breastfeeding by all adolescent mothers. The pediatrician can also be the advocate for the breastfeeding adolescent in the school setting.

4. Contraceptive counseling should be initiated during pregnancy and continued after the pregnancy with an emphasis on long-acting methods coupled with condom use.

5. Pediatricians should emphasize to the adolescent mothers the importance of completing high school.

6. Pediatricians should encourage the continuation of healthy lifestyles that may have been initiated during pregnancy. Information on the effect of maternal substance use and cigarette smoking on infant and child health and development should be provided at mother and infant visits.

7. The pediatrician should assess for risk of domestic violence during and after pregnancy.

8. Pediatricians should stress the importance of the adolescent parent caring for the child even if other adults are involved in the caregiving (e.g., grandmothers and great-grandmothers). These other caregivers need support and education to allow optimal infant development while helping the adolescent to achieve her own developmental milestones.

9. Pediatricians should adapt their counseling to the developmental level of the adolescent, using office-based and school-based interventions that incorporate intensive instruction on infant care and development, discipline, and the stress associated with parenting. Use of support groups in the office, clinic, or school setting; home visits; and creative use of videos and the media can improve skills.

10. Pediatricians should maintain a heightened sense of awareness to attend to the development of both infant and adolescent parent. The pediatrician should ensure that both quality community resources are available and that quality programs are used by adolescent parents such as competent home visits, sensitive and effective preterm and infant classes, quality child care giving programs, and well-managed programs supported by Head Start and Individuals with Disabilities Education Act-Part C (for children ages 0 to 3 years with disabilities or at risk) when available and appropriate.

11. Pediatricians should provide positive reinforcement for success, including praising adolescents who are successful (e.g., graduating from high school or college; abstaining from use of drugs, alcohol, and nicotine; continuing breastfeeding; keeping the child’s immunizations current; and attending all well-child visits).

12. Further studies are needed on interventions involving fathers of infants born to adolescents and on the influence of grandmothers assisting in child rearing or as primary caretakers.
13. Short- and long-term outcome evaluations should be conducted on adolescent parenting programs.

COMMITTEE ON ADOLESCENCE, 2000–2001
David W. Kaplan, MD, MPH, Chairperson
Ronald A. Feinstein, MD
Martin M. Fisher, MD
Jonathan D. Klein, MD, MPH
Luis F. Olmedo, MD
Ellen S. Rome, MD, MPH
W. Samuel Yancy, MD

LIAISONS
Paula J. Adams Hillard, MD
American College of Obstetricians and Gynecologists
Glen Pearson, MD
American Academy of Child and Adolescent Psychiatry
Diane Sacks, MD
Canadian Paediatric Society

SECTION LIAISONS
Barbara L. Frankowski, MD, MPH
Section on School Health

STAFF
Tammy Piazza Hurley

COMMITTEE ON EARLY CHILDHOOD, ADOPTION, AND DEPENDENT CARE, 2000–2001
Peter A. Gorski, MD, MPA, Chairperson
Deborah Ann Borchers, MD
Danette Glassy, MD
Pamela High, MD
Chet D. Johnson, MD
Susan E. Levitzky, MD
S. Donald Palmer, MD
Judith Romano, MD

LIAISONS
Nancy Hablutzel, PhD, JD
National Council of Juvenile and Family Court Judges
Moniquin Huggins
Child Care Bureau
Mireille B. Kanda, MD, MPH
Head Start Bureau
Pat Spahr
National Association for the Education of Young Children
Phyllis Stubbs-Wynn, MD, MPH
Maternal and Child Health Bureau
Ada K. White
Child Welfare League of America

STAFF
Eileen Casey, MS

REFERENCES
30. Furstenberg FF Jr, Levine JA, Brooks-Gunn J. The children of teenage
33. Crockenberg S. Predictors and correlates of anger toward and punitive control of toddlers by adolescent mothers. Child Dev. 1987;58:964–975
43. Ekulona A. A Curriculum For Male Involvement in Prenatal Care (Healthy Start Initiative). Baltimore, MD: The Baltimore City Health Department; 1994