Original article
Concealed pregnancy among school-going adolescents in South Africa: A qualitative study on risks for maternal and child health
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Abstract:

Objective: Concealed pregnancy is a public health concern with risks to girl-education as well as maternal and child health. This paper focuses on concealed pregnancy amongst adolescents attending schools in Limpopo province of South Africa. It defines concealed pregnancy, some reasons for concealment, methods used, partners in crime and implications for girl-education as well as maternal and child health. Materials and methods: A qualitative and exploratory study using in-depth interviews with 10 pregnant adolescents attending school, five parents and 10 educators on their experiences of caring for pregnant adolescents attending school was conducted. Results and Discussion: Results show that pregnant adolescents attending school conceal their pregnancies using various methods of keeping a secret, telling a lie, wearing baggy clothing, isolating and hiding among other students in overcrowded teaching spaces. They participate passively in learning activities to evade attention to themselves. Some authority figures such as educators and parents as well as other students are accomplices. Conclusion: To conceal pregnancies, pregnant adolescents attending schools flout antenatal care, thus increasing risks to women and children’s health. They also show lack of attentiveness to learning activities at school, thus losing chances to achieve an education.

Keywords: teenage pregnancy; parental involvement; exercises in pregnancy; school health services; maternal and child health

Introduction
South Africa is facing challenges of unplanned and unwanted pregnancies amongst adolescents attending schools. There is no coordinated care for them to go on with schooling while having access to ante-natal care (ANC). As such some conceal their pregnancies. Concealed pregnancy refers to when a woman, who is aware of being pregnant, intentionally keeps her pregnancy hidden from some people, particularly authority figures. A pregnant woman concealing pregnancy may not go for ANC or may only go after twenty weeks’ gestation, which means that pregnancy can be concealed for some few months or in some cases until birth. This definition of concealed pregnancy allows for some degree of confession where the pregnant woman divulges to a trustworthy person or persons who would conspire to conceal. Concealed pregnancy happens in women of various social backgrounds and parity. It is a public health concern with risks to maternal and child health as some women who conceal their pregnancies do not attend ANC as recommended. This paper focuses on concealed pregnancy amongst adolescents attending schools in Limpopo province of South Africa. Limpopo is amongst the provinces with the highest number of pregnant learners in both primary and secondary schools. The paper defines concealed pregnancy, discusses reasons for concealment, methods used, authority figures as accomplices to concealment and implications for girl education, maternal and child health.

Materials and Methods
The researcher conducted in-depth interviews with 25 purposively selected pregnant adolescents, their parents and their educators, using an interview guide, and recorded them with a voice recorder. In addition, field notes were collected immediately after the end of each interview. Respondents were asked for and agreed to the use of a voice recorder. Pregnant adolescents and their educators were interviewed at their schools while parents were interviewed at locations of their choice outside school premises.

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The researcher interviewed educators and pregnant adolescents between lessons, as they were available, to ensure that teaching and learning activities are not disturbed. Respondents were interviewed individually, for between 45 and 60 minutes, until saturation of data was reached. To analyse data, the researcher transcribed voice recordings verbatim, wrote them in the form of a table to get them ready for line-by-line coding, and then used Tesch’s open coding process. Subsequently, the researcher gave an independent coder (experienced in qualitative research and reproductive health) all transcriptions and field notes to analyse and the codes found were matched with those found by the researcher. The two coders met to discuss and agree on the final codes. The study respected research ethics principles of beneficence, respect for persons and justice by obtaining ethical clearance, asking for voluntary participation and obtaining permission from relevant authorities to access respondents. This paper is part of a doctoral study on caring for pregnant adolescents going to schools in Limpopo Province of South Africa, as such, ethical clearance (HSHDC/185/2013) was provided by a relevant university. Approval to visit schools to collect data was given by managers at a provincial department of basic education, circuit offices and participating schools. All respondents consented to participate and signed consent forms, with pregnant adolescents assenting while their parents consented for them as they were below the age of consent to participate in research. The researcher satisfied credibility, transferability and confirmability, which are methods to ensure trustworthiness of qualitative studies.

**Ethical clearance:** The study respected research ethics principles of beneficence, respect for persons and justice by obtaining ethical clearance.

**Results**

Because of saturation of data, 25 respondents, being 10 pregnant adolescents, 10 educators and five parents took part in the in-depth interviews. The 25 respondents were from four different secondary schools in Limpopo Province of South Africa. One parent was a male while the rest were females. One of the parents that shared their experiences of being a parent to a pregnant adolescent attending school was an educator at a school that did not participate in this study. Six educators were females while the remaining four were males. Three themes and six sub-themes emerged with the themes showing reasons for concealment, methods to conceal and partners in crime. The sub-themes show fear of reaction and the need to remain in school as reasons for concealment; conveying false impression and wearing concealing clothing as methods to conceal while adult authority figures as accomplices to concealment are parents and educators. Table 1 presents a summary of the themes and sub-themes found, with narratives. Summarising themes in a table helps readers to get a comprehensive view of the findings. The quotes from the transcripts show voices of pregnant adolescents, their parents and educators.

| Themes                        | Sub-themes                      | Narratives                                                                 |
|-------------------------------|--------------------------------|-----------------------------------------------------------------------------|
| Reasons for concealment        | Fear of parental reaction and of the stigma of pregnancy outside marriage | ‘I was very shy… of what people would say, of what my parents would say, of what my teachers would say and I was very disappointed’ (pregnant adolescent) |
| To remain in school           | Conveying false impression      | ‘I asked my mother to ask the headmaster if I can come to school and the headmaster agreed, but he said if I come to school I must always wear a blazer so that the stomach does not show and people cannot see. I went to school and attended the class but the educators didn’t know that I was pregnant’ (pregnant adolescent) |
| Methods to conceal            | Wearing concealing clothing     | ‘…what made me believe that student was indeed pregnant was the fact that she was always wearing the Drimac® (a type of jacket) and even if it was not cold….she was like hiding that pregnancy’ (educator) |
|                               |                                | ‘these days pregnancy is not easily visible because kids can cover themselves’ (parent) |
|                               |                                | ‘through putting on this Drimac® …either it was hot or cold, that particular student will continue to put on that particular garment, trying to hide that physical appearance. At one stage when we started somewhere in 2008, we had such a case whereby we didn’t even notice a student was pregnant as she hides it within herself’ (educator) |
that their parents may persuade them to either terminate pregnancies or take the child for adoption. Others dread their parents will sway them to keep the children and be mothers. Pregnant adolescents attending schools always conceal pregnancy as the pregnancy is unplanned and undesirable⁷. Respondents talked about various methods used to conceal pregnancy which encompassed telling a lie or conveying a false impression and wearing concealing clothing. One pregnant adolescent narrated putting on a blazer while others described to have put on a jacket even when it was warm. A blazer and a jacket are pieces of school uniform set aside for cold days. Other studies reveal some pregnant women concealing pregnancies with baggy or loose-fitting clothes which conceal their changing physique. Such women would wear heavy, oversized clothes even in summer or when it was warm¹⁷. As indicated earlier, pregnant adolescents conceal their pregnancies to either their parents, educators or to both. Some divulge to their parents only while others divulge to some educators alone and pleads with them to conceal to others, thus becoming partners in crime or accomplices. Sometimes other students who are aware of the pregnancy also assist with concealment. This study reveals that some adult authority figures such as parents and educators assist with concealment. Some educators who were aware of pregnancy counselled pregnant adolescents to conceal their pregnancies. There are cases where pregnant adolescents revealed their pregnancies to their parents, but their parents were unwilling to inform the educators. At times some educators may know of the pregnancy but not share that information with other educators.

It takes time and strength of mind to conceal a pregnancy, thus pregnant adolescents attending school who conceal their pregnancies may be stressed and unable to pay attention to studies even when they remain in class⁵. Some refrain from hanging out with other students and become lonely while others shun active participation in learning activities. Wearing heavy clothes in warm weather conditions is likely to cause discomfort which may prevent a student to pay attention during lessons. This may lead to school drop-out due to poor academic performance, thus not contributing to girl-child education goal.

Remaining in school and getting some level of education is associated with increased ANC attendance which leads to positive maternal and child health outcomes. Some pregnant adolescents who conceal their pregnancies delay initiating ANC
attendance while others do not attend at all\textsuperscript{6}. Some of those concealing pregnancies fail to adapt their style of living in line with ANC recommendations to accommodate their pregnancies, in order to evade being visible, as such they risk their health and those of their unborn children. Others continue with usual activities like taking part in sports which can cause damages to the mother and her unborn child. Although exercising is encouraged for everyone, pregnant women are advised to avoid activities that involve physical contact and have increased chances of falling. Pregnant women should consult healthcare professionals if they want to take part in sport so that contraindications, if any, can be identified\textsuperscript{18}. There are cases of pregnant adolescents who successfully conceal their pregnancies until labour and also conceal birth by delivering without medical care. Delivering without medical care may push away the mother and child from accessing postnatal care and child health services thus remaining outside the formal health services \textsuperscript{19}. Some of those who succeed in concealing both pregnancy and birth throw away or kill their new-born babies\textsuperscript{4}. Maternal and child health risks take place as there are no ANC visits to assess and monitor health and development of both the mother and the child \textsuperscript{1}. A concealed pregnancy may, due to lack of health assessment and monitoring, result in severe complications and possibly death of either the woman or her child\textsuperscript{10}.

**Conclusion**
This study revealed that pregnant adolescents attending schools conceal their pregnancies so they will avoid being expelled from school. They use various methods and need some parents, educators and other students as accomplices. To conceal pregnancies, some pregnant adolescents attending schools flout ANC, thus increasing risks to the health of women and children. Some of them also show lack of interest in learning activities at school, thus losing chances to achieve an education. Consequently, parents, educators and school health nurses have a duty to work collectively to support pregnant adolescents attending schools so they stay in school without concealing their pregnancies and can attend ANC. Research on innovative strategies to prevent pregnancy amongst adolescents attending school should be continued. Providing social support to those already pregnant is important to retain them in school and facilitate access to ANC. Those innovative strategies should not leave adolescent boys and men behind.

**Conflict of interest**
The author declares no competing interest

**Author’s contribution**
SFM is the idea owner of this study and is responsible for Study design, Data gathering, Analysis and interpretation of data, Writing and submitting manuscript

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