Teenage Pregnancy – A thorny sexual and reproductive health issue of public health concern

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Sexual and reproductive health continue to be a challenge despite increased attention to them. Maternal and prenatal health are health concerns, especially among pregnant and parenting teens. Although it remains a controversial debate, some studies have shown significantly higher incidence of premature birth, low birthweight, eclampsia, puerperal infection, still birth, and early neonatal death among adolescent mothers [1-3].

The United Nations Population Fund (UNFPA) states that pregnancies among girls aged <18 years can have irreparable harms, violating the rights of girls with life-threatening consequences in terms of sexual and reproductive health such as complications of birth, malnutrition, general ill health, and in some cases death, especially in low-income countries [4,5]. Before the 21st century, teenage pregnancies were normal in developed and developing countries [6]. There has been a general worldwide decrease in teenage (15–19 years) pregnancy from close to 90 births per 1,000 in 1960 to <45 per 1,000 in 2015 [7], however, teenage pregnancy continues to be a disproportionate threat to sexual and reproductive health among adolescents [8]. The United Nations Population Division reports a steady but not uniform decrease among different socioeconomic populations between 1960 and 2015 among teenagers aged 15-19 years: 46 to 13 per 1,000 in high income countries, 96 to 40 per 1,000 in middle income countries, and 137 to 96 in low income countries. Globally, the rates of teenage pregnancy range from as high as 143 per 1,000 in some sub-Saharan countries to 2.9 per 1,000 in South Korea. The World Health
Organisation (WHO) and the UNFPA report in 2013 indicated that about 16 million girls aged 15-19 years, most from low and medium income countries, give birth each year [4]. Sub-Saharan Africa records the highest rate of teenage pregnancy in the world [5, 9], with an overall rate of 100 per 1,000 births among girls aged 15-19 years in 2015 [7].

<table>
<thead>
<tr>
<th>Age (years)</th>
<th>Survey year</th>
<th>2001/02</th>
<th>2007</th>
<th>2013/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
<td>4.5</td>
<td>5.8</td>
<td>4.9</td>
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<tr>
<td>16</td>
<td></td>
<td>15.0</td>
<td>16.2</td>
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<tr>
<td>17</td>
<td></td>
<td>33.8</td>
<td>28.7</td>
<td>25.7</td>
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<td>18</td>
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<td>44.2</td>
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<td>19</td>
<td></td>
<td>56.9</td>
<td>54.3</td>
<td>58.9</td>
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<tr>
<td>Overall</td>
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<td>31.6</td>
<td>27.9</td>
<td>29.0</td>
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The United States in 2011 recorded the highest teenage pregnancy rates, 57 per 1,000 adolescents among the developed countries worldwide followed by New Zealand at 51 per 1,000 and England and Wales with 47 per 1,000 compared to the lowest in Switzerland 8 per 1,000, followed by the Netherlands, Singapore and Slovenia with 14 per 1,000 each [10]. Europe since 1970 has seen an overall decreasing trend in total fertility rate with an increase in the median age of mothers giving birth for the first time. Most western European countries continue to record very low teenage birth rates [11]. Asia overall continues to record high rates of teenage pregnancy, however, in the highly-industrialised countries of the region including Korea and Singapore, teenage birth rates are among the lowest in the world [12]. In Zambia, teenage birth rates remain high. According to the Zambia Demographic Health Survey (ZDHS) reports, 31.6% of girls aged 15-19 years had already had a birth or were pregnant with their first child 2001/02 compared with 27.9% in 2007 and 29.0% in 2013/14 (Table 1). In all the above surveys we see close to and above 5% of 15-year-olds have begun childbearing (4.5%, 5.8%, and 4.9% in 2001/02, 2007, and 2013/14, respectively). The rates are even higher among the 19-year-olds at 56.8%, 54.3%, and 58.9% [13-15] as shown in table 1.

The persistent birth rates greater than 4% have been attributed to various factors including early marriage, poverty, and low education levels. The UNFPA states that girls from poverty stricken or rural areas and uneducated girls everywhere are at greater risk of becoming pregnant than those who are wealthier, from towns or cities, or well-educated. This is evident on a global level with 95% of the world’s births to adolescents aged 15 to 19 years taking place in
developing countries [16]. In a study by L’Engle et al., [17], adolescents exposed to sexuality in the media are more likely to engage in sexual activities. Sexual abuse has also been listed as a factor leading to teenage births. In studies conducted in South Africa, 11% to 20% of pregnancies among teenagers are a direct consequence of rape and approximately 60% of teenage mothers had unwanted sexual experiences preceding their pregnancy [18].

In Zambia, sexual health, sexuality and HIV are still regarded as inappropriate in many areas of the country, especially in rural communities and this could be a contributing factor to the continued high teenage pregnancy rates [19].

Various interventions are employed globally to mitigate the problem of teenage pregnancy, such as sex education, access to birth control [20], and advocacy against child marriages. In the 2011 estimates documented by Sedgh et. al. indicated higher rates in the United States at 57 per 1,000 births among adolescents, however by 2013, they had recorded a historic low with 26.6 births per 1,000 women aged 15–19 [10] attributed to abstinence and effective contraceptive use [21]. The decreased rates of teenage pregnancies in the United States have been attributed to free access to long acting forms of reversible birth control measures along with education [22]. The low birth rates in Western Europe have been linked to effective sex education and high levels of contraceptive use in the Netherlands and Scandinavia, while in Spain and Italy, it is attributed to traditional values and social stigmatisation; both factors are believed to play a part in Switzerland [11]. Developing countries are making efforts to mitigate the problem of teenage pregnancies, however, the programs of reproductive health in place are small scale and not centrally located, hence the slow decline. However, some developing countries have made great strides, such as Sri Lanka, which has a systematic policy framework for teaching about sex in schools [12]. International non-governmental organisations including the International Planned Parenthood Federation and Marie Stopes continue to provide support for contraceptive advice for all including young women around the world [23,24]. Laws
against childhood marriages and improved literacy among females have been seen to help mitigate the problem of teenage pregnancies in countries such as Iran and Indonesia [25].

In Zambia, strategies to support the return of teen mothers and teen brides to school are among the strategies being employed to reduce the high numbers of adolescent pregnancies. Campaigns including pre-marital sexual abstinence or condom use, or both, are being used as strategies towards reducing issues surrounding sexual and reproductive health such as unwanted pregnancies and sexually transmitted infections in Zambia. [19].

In this issue, we publish some reports in the area of sexual and reproductive health including: Does circumcision influence risky sexual behaviour among circumcised sexually active men in Zambia? Evidence from the 2013-14 Zambia Demographic and Health Survey; Condom use at last sexual intercourse among teenagers in Zambia: results from the 2013-2014 Zambia Demographic and Health Survey, 2013-2014; Prevalence and factors associated with voluntary medical male circumcision uptake in Ndola, Zambia, 2016: A cross-sectional study among students; and a policy brief entitled Keeping our future generation alive: reinforcing routine HIV testing and treatment among children in Zambia. Other articles published include: Negligible therapeutic effects of enalapril in a 65-year-old black man with essential hypertension; Misdiagnosis of heart failure for amlodipine adverse reaction; and Bacteriological status of shallow well water and practices of users in Chipulukusu Township, Ndola, Zambia.

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