

## The consequences of son preference and sex-selective abortion in China and other Asian countries

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Parents' preference for sons is common in countries in East Asia through South Asia, to the Middle East and North Africa. Sons are preferred because they have a higher wage-earning capacity (especially in agrarian economies), they continue the family line and they usually take responsibility for care of parents in illness and old age.<sup>1</sup> There are also specific local reasons for son preference: in India, the expense of the dowry; and in South Korea and China, deep-rooted Confucian values and patriarchal family systems.<sup>2</sup>

For centuries, son preference has led to post-natal discrimination against girls; this has resulted in practices ranging from infanticide to neglect of health care and nutrition, often ending in premature mortality.<sup>3</sup> But in the 1980s, ultrasound technology started to become available for diagnostic purposes in many Asian countries, and the opportunity to use the new technology for sex selection was soon exploited. In countries where there is a combination of son preference, a small-family culture and easy access to sex-selective technologies, very serious and unprecedented sex-ratio imbalances have emerged. These imbalances are already affecting the reproductive age groups in a number of countries, most notably China, South Korea and parts of India.<sup>1,3,4</sup>

The sex ratio at birth (SRB) is defined as the number of boys born to every 100 girls, and is remarkably consistent in human populations at around 105 male births to every 100 female births. South Korea was the first country to report a very high SRB, because the widespread uptake of sex-selective technology in South Korea preceded that of other Asian countries.<sup>4</sup> The SRB started to rise in South Korea in the

mid-1980s, and by 1992 the SRB was reported to be as high as 125 in some cities.

China soon followed. Here, the situation is complicated by the one-child policy, which has undoubtedly contributed to the steady increase in the reported SRB from 106 in 1979, to 111 in 1990, 117 in 2001 and 121 in 2005.<sup>5</sup> Because of China's huge population, these ratios translate into very large numbers of excess males. In 2005 it was estimated that 1.1 million excess males were born across the country, and that the number of males under the age of 20 years exceeded the number of females by around 32 million.<sup>5</sup> These overall figures conceal wide variations across the country. Figure 1 shows these variations at the regional level: the SRB is over 130 in a strip of provinces from Henan in the north to Hainan in the south, and it is close to normal in the large, sparsely populated provinces of Xinjiang, Inner Mongolia and Tibet. High reported SRBs can result from female infanticide and underregistration of female births. However, in China, there is now clear evidence that sex-selective abortion accounts for the overwhelming number of "missing women."<sup>2,3,5</sup>

In India there are also marked regional differences in SRB. Incompleteness of birth registration makes the SRB difficult to calculate accurately, but using the closely related ratio of boys to girls under the age of six years, it is found that there are distinct regional differences across the country. Several states in the north and west such as Punjab, Delhi and Gujarat have sex ratios as high as 125, but in the south and east, several states such as Kerala and Andhra Pradesh have sex ratios of around 105.<sup>3</sup>

A consistent pattern in all three countries is the marked trend related to birth order and the influence of the sex of the preceding child. If the first child is a girl, couples will often use sex-selective abortion to ensure a boy in the second pregnancy, especially in areas where low fertility is the norm. A large study in India showed that for second births with one preceding girl the SRB is 132, and for third births with two previous girls it is 139, whereas sex ratios are normal where the previous child was a boy.<sup>6</sup> In China this effect is even more dramatic, especially in areas where the rural population are allowed a second child only after the

### KEY POINTS

- In China, son preference and sex-selective abortion have led to 32 million excess males under the age of 20 years.
- Men for whom marriage is unavailable are assumed to be psychologically vulnerable and may be prone to aggression and violence.
- Policy-makers are addressing some causes of the high sex ratio at birth, but more could be done.
- It will be several decades before the sex ratio at birth in countries like India and China is within normal limits.



indeed have low self-esteem, are inclined to depression and tend to be withdrawn. But there is no evidence that they are prone to aggression or violence, nor are reports of crime and disorder any higher in areas where there are known to be excess men. This may be because there is not yet a large enough critical mass of unmated men to have an impact, or because the assumptions about male aggression do not apply in this context.

It is also thought that large numbers of excess men will lead to an expansion of the sex industry. The sex industry has expanded in India and China in the last decade.<sup>12,13</sup> However, the part played by a high sex ratio in this expansion is impossible to isolate; there is no evidence that numbers of sex workers are greater in areas with high sex ratios. The recent rise in numbers of sex workers in China has been attributed more to increased socioeconomic inequality, greater mobility and a relaxation in sexual attitudes than an increase in the sex ratio.<sup>14</sup>

There may also be positive aspects of this easy access to sex selection. First, access to prenatal sex determination probably results in an increase in the proportion of wanted births, leading to less discrimination against girls and lower female mortality.<sup>15</sup> India, South Korea and China have all reported reductions in differential mortality in the last decade.<sup>3,16</sup> Second, it has been argued that an imbalance in the sex ratio could be a means to help to reduce growth in the population.<sup>17</sup> Third, as numbers of women in society fall, they become more highly valued and their social status increases.<sup>18</sup> Not only will this benefit the women's self-esteem, mental health and well-being, but the improved status of women should result in reduced son preference, with fewer sex-selective abortions and an ultimate rebalancing of the sex ratio.<sup>1</sup>

## The policy response

Nothing can realistically be done to reduce the current excess of young males, but much can be done to reduce sex selection now, which will benefit the next generation. Realization of the potentially disastrous effects of this distortion in the sex ratio has led governments to take action. There are two obvious policy approaches: to outlaw sex selection and to address the underlying problem of son preference.

There are already laws forbidding fetal sex determination and sex-selective abortion in China, India and South Korea. But only in South Korea has the law been strongly enforced. As early as 1991, physicians in Seoul had their licences suspended for performing sex determination, with a resulting fall in the SRB from 117 to 113 in the following year.<sup>4</sup> In South Korea this enforcement, along with public awareness campaigns, con-



**China's successful Care for Girls publicity campaign, which includes billboards, focuses on the value of female children and the problems facing the overabundance of young men.**

tributed to a reduction in the SRB from a high of 118 in 1990 to 109 in 2004.<sup>19</sup> The fact that in China and India sex-selective abortion is still carried out with impunity, by medical personnel, usually qualified doctors, in hospitals and clinics, not in backstreet establishments, makes the failure of government to enforce the law all the more surprising. However, although sex-selective abortion is illegal, abortion itself is readily available, especially in China, and it is often difficult to prove that an abortion has been carried out on sex-selective, as opposed to family-planning, grounds.

To successfully address the underlying issue of son preference is hugely challenging and requires a multifaceted approach. In China, large public awareness campaigns, including poster and media campaigns, have focused on gender equity and the advantages of having female children. Recognition that intense intervention would be necessary to change these centuries-long traditions led to the Care for Girls campaign, instigated in 2003 by China's National Population and Family Planning Commission. This campaign is a comprehensive program of measures, initially conducted in 24 counties in 24 provinces, which aims to improve perceptions of the value of girls and emphasizes the problems facing young men in finding brides. In addition, there has been provision of a pension for parents of daughters in rural areas. The results have been encouraging: in 2007, a survey showed that the campaign had improved women's own perceived status and that stated son preference had declined. In one of the participating counties in Shanxi province, the SRB reduced from 135 in 2003 to 118 in 2006.<sup>20</sup>

Evidence from areas outside Asia strongly supports the notion that higher status for women leads to less-traditional gender attitudes and lower levels of son preference.<sup>21</sup> The Chinese government has already made important moves toward gender equity in terms of social and economic rights. In 1992, the Law on the Protection

of Rights and Interests of Women ensured equal legal rights for women in politics, culture, education, work, some property rights and marriage.<sup>22</sup> These measures, together with socioeconomic improvements and modernization, have led to improvements in women's status, which is gradually influencing traditional gender attitudes.<sup>19</sup>

But the sex ratio is persistently very high, so other policy options should be considered. The first relates to relaxation of the one-child policy. There has been gradual relaxation over the past decade. In large urban centres, if a husband and wife were both only children, two children are permitted. Starting in late 2011, this exception will apply if either spouse was an only child, if they reside in one of five large eastern provinces, which will massively increase the number of couples who will be allowed two children. In itself, this will probably have only a small effect on the sex ratio, because the high sex ratio is a greater problem in rural areas. But this signals a considerable relaxation in the previously strictly applied one-child rule in urban areas. In rural areas, a similar relaxation, especially to allow a third child after two girls, could lead to a substantial reduction in the sex ratio. The greatest contribution to the high sex ratio is in second-order births in rural areas. Evidence from studies that have explored preferred family size suggests that fears of a resulting rural population explosion would be unfounded, because a small minority of couples claim to want more than two children.<sup>23</sup>

The second policy option addresses the underlying problem of the value of female children. Women in rural China still marry into their husband's family and cannot inherit family land, so daughters are often perceived as having "no value" to parents. In urban areas these traditions of inheritance have broken down and gender discrimination has decreased. It has been argued that changes in these laws in rural China could fundamentally influence attitudes about the value of women, which could lead, in turn, to a decrease in the sex ratio.<sup>2</sup>

## The future

Despite the grim outlook for the generation of males entering their reproductive years over the next two decades, there are encouraging signs. In South Korea the sex ratio has already declined markedly, and China and India are both reporting incipient declines. In China, the SRB for 2008 was reported as 119, down from a peak of 121, and 14 provinces with high sex ratios are beginning to show a downward trend. India is now reported to have an SRB of about 113, down from a peak of about 116.<sup>19</sup>

However, these incipient declines will not filter through to the reproductive age group for another two decades, and the SRBs in these countries remain high. It is likely to be several decades before the SRB in countries like India and China are within normal limits.

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