Fetal alcohol syndrome: dashed hopes, damaged lives

Since the term was coined about 40 years ago fetal alcohol syndrome has slowly become recognized as a public health issue. Alicestine October reports from South Africa’s Western Cape province that has the highest reported rate in the world.

“When I was pregnant with my son I drank a lot – mostly on weekends,” says Marion Williams, a 45-year-old mother who lost two of her five children in childbirth.

Williams lives in one of South Africa’s famous wine-growing areas in the Western Cape. She started drinking as a teenager and was taken out of school. She suspects, to work to buy wine for her parents.

Her third child, was “born slow”, she says. She blames herself and her drinking for the disabilities he will live with for the rest of his life.

“There is a lot he wants to do, but I must remind him he’s not like other kids: he can work with his hands and build cupboards but [he can] not [do] a thinking and writing job,” she says, regretfully. “He asks me why I drank so much [while I was expecting him]. I don’t really have answers for him”.

Heavy drinking during pregnancy can result in spontaneous abortion or brain damage resulting in fetal alcohol spectrum disorders, of which fetal alcohol syndrome is the most severe.

Children with this condition are born with characteristic physical and mental defects, including short stature, small head and brain, congenital heart disease and abnormal development of the body structure and bones.

There is no cure. Treatment is focused on mental health and medical services to manage the resulting lifelong disabilities that include learning difficulties, behavioural problems, language, social or motor skills impairment, impaired memory and attention deficits.

“It is estimated that at least one million people in this country have fetal alcohol syndrome and approximately five million have partial fetal alcohol syndrome and fetal alcohol spectrum disorders. It’s tragic because it’s completely preventable,” says researcher and human geneticist Denis Viljoen in Cape Town, the provincial capital of South Africa’s Western Cape.

“FAS is the most common birth defect in the world, by far more common than Downs Syndrome and other neural-tube defects,” says Viljoen, who set up the Foundation for Alcohol Related Research in 1997 after reaching the shocking conclusion that one in 10 of the children he saw at the genetics clinic at a hospital in Cape Town were affected.

“I saw then that FAS was much more common that people thought ... Public awareness [in South Africa] started with our initial research,” he says.

The NGO fights fetal alcohol syndrome on several fronts: it gathers scientific evidence to highlight the problem in the hope that government decision makers will fund and initiate prevention programmes; it trains medical and social services staff to develop prevention programmes and raises public awareness through posters and other publicity activities.

Based on his published work and ongoing research, Viljoen estimates that between 70 and 80 per 1000 babies born in the Western Cape have the syndrome – the highest known prevalence in the world. And the problem is not just limited to the rural poor of the Western Cape.

“We see an increasing number of children with fetal alcohol spectrum disorders from middle and higher socio-economic groups coming to our private practice,” he says.

In developed countries, a recent surge in new cases is attributed to increased awareness and more doctors diagnosing the problem rather than a worsening of the problem. This is also the case in South Africa, Viljoen says.

There are no reliable global prevalence figures, but a 2005 study estimated a global prevalence of 0.97 per 1000 live births based on research in the United States of America.

Some governments run targeted prevention programmes, but in many countries this work is left largely to NGOs, such as in South Africa.

In the farming community where Williams lives, heavy drinking partly stems from the 400-year-old practice of giving slaves and their descendants – Afrikaans-speaking farm workers – alcohol in recompense and to keep them captive through addiction.

“The tot (tot) system ... entrenched a culture of alcohol abuse and it is difficult to break through that culture,” says Francois Grobbelaar, who runs FASfacts, an NGO that works with farming communities to prevent fetal alcohol syndrome.

While the tot system is specific to the Western Cape, studies show that there are common risk factors for fetal alcohol syndrome including poor maternal nutrition, lack of education, ill health, stress and tobacco use and that the communities most affected are often impoverished and socially deprived, such as indigenous
populations in the Western Cape (who are partly of Khoisan descent) Aboriginals in Australia and Native Americans in the USA.

Awareness of the problem has grown ever since the term fetal alcohol syndrome was coined in 1973.

In the United Kingdom, NoFAS, an NGO, was set up in 2003 by the adoptive mother of a child with the syndrome and in 2007 the British Medical Association published a report on the problem calling on health professionals to step efforts to prevent it.

In the Russian Federation since 2003 researchers from St Petersburg State University and Nizhny Novgorod State Pedagogical University have been working on a project to prevent women from drinking during pregnancy in collaboration with the University of Oklahoma Health Sciences Center and funded by the US National Institutes of Health and Centers for Disease Control and Prevention.

It involves collecting data as an evidence base to develop prevention strategies, development of education materials for the public and doctors and a 20-site randomized trial to test a prevention intervention for women at risk. According Principal Investigator Tatiana Balachova, the clinical trial will be completed next year.

“You have to teach physicians and nurses how to talk to women in an effective way,” says Elena Varavikova, leading researcher at the Federal Research Institute for Health Care in Moscow. “This should be included in their continuing medical education”. Doctors and other health-care professionals also need an incentive to do preventive work.

Funding for these activities should be covered by health insurers, she says.

“Our country has one of the highest levels of alcohol consumption with drinking among in women on the rise, and recent studies found high rates of fetal alcohol syndrome in Russian orphans. Now it is time to act,” says Varavikova, who is working on the project.

In South Africa, for Robert Macdonald, head of the substance abuse unit in the health department of the Western Cape, the syndrome is part of the wider problem of alcohol abuse that carries much greater burden of disability due to injuries, often from interpersonal violence, and disease.

“We see that every Friday and Saturday night in our hospital trauma wards,” Macdonald says. He hopes that the province’s Liquor Act, which comes into force this year, will reduce the alcohol supply by limiting access including closure of illegal shebeens (bars) and a ban on selling alcohol on credit. But he fears it will be difficult to police. “There are 37 000 illegal shebeens in the province and only a few hundred police officers available to enforce it”.

As Macdonald notes, the costs to society are high. “Fetal alcohol syndrome is also an issue because affected children require special-needs schooling and other forms of specialized care. It really has knock-on effects”. He adds that the Western Cape Department of Health is launching “Booza TV”, a television series this year to help educate people about alcohol abuse.

A study published in the American Medical Journal in 2004 estimated the social costs, including loss of productivity, lifetime costs of medical care and rehabilitation, at around US$ 4 billion in 1998.

Some children with fetal alcohol syndrome are not diagnosed because they are adopted or fostered and their new parents are not aware of their background of chronic alcohol abuse, campaigners say. Particularly in the case of fetal alcohol spectrum disorders, they may look like other children, but their “difficult” behaviour may be misunderstood if they have not been diagnosed.

In South Africa, fetal alcohol syndrome touches on so many different fields – maternal and child health, agriculture (as it affects farm workers more than any other group), substance abuse and scientific research – that it has fallen between the cracks and is mainly championed by NGOs who complain bitterly about underfunding and a lack of governmental commitment.

FASFacts runs fetal alcohol syndrome prevention campaigns for school pupils, other young people and adults. In addition, it works with shebeens (bars) owners by educating them not to sell alcohol to pregnant women and under-aged children. In one project, it provides each of 100 pregnant women in high-risk communities with a mentor to support her and encourage her not to drink alcohol. But Grobelaar says its work is largely confined to rural communities due to lack of funding to reach urban areas.

Viljoen says FARR’s research, training, prevention and awareness-raising work only receives “a little funding” from the departments of social development and agriculture and nothing from the health department of the Western Cape.

But despite these efforts, as long as alcohol is accessible, affordable and socially acceptable, prevention work will be an uphill struggle.

Given the addictive power of alcohol, some women still drink heavily during pregnancy despite receiving all the right advice. Williams says she was advised to stop drinking while expecting her son: “I was hard-headed and just kept on drinking”.

It was only once Williams was expecting her youngest child that she managed to give up alcohol for good. The child “came out fine” and today her daughter is 12 years old and wants to be a teacher.

Additional reporting from Elena Zolotova in Moscow
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