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## Sperm donor pool shrivels when payments cease

On the website [privatesperm.com](http://privatesperm.com), a 48-year-old civil engineer/songwriter/composer/music producer named Randy, who describes himself as having genius-level intelligence, offers his sperm to Canadian women who want to have children. But not through artificial insemination. “Natural method only,” he writes. On [freespermdonor.com](http://freespermdonor.com), a 53-year-old man who is disease-free and has a PhD offers his sperm to women from any country — as long as they fly to his home in Bahrain, a small country in the Persian Gulf. A 34-year-old Californian named Trent Arsenault offers free sperm on his website ([trentdonor.com](http://trentdonor.com)), which includes a list of 10 successful pregnancies.

Fertility doctors don’t recommend that women seeking to conceive take these men, and the increasing number of other men offering free sperm on the Internet, up on their offers. It is not safe, experts say, and these grey-market donors were probably rejected from fertility clinics, which have rigorous screening practices. These websites have been popping up with greater frequency, some fertility experts speculate, because people seeking donor sperm have fewer options than they once did, in large part because many countries no longer pay sperm donors.

In 2006, for instance, the United Kingdom banned payment for sperm, and the number of women using donated sperm fell by more than a quarter. Some UK fertility advocates want payments brought back, claiming that the lack of donor sperm is simply driving women abroad in search of fertility treatments. Some fear that shrinking sperm donor pools could cause too much reliance on a small number of donors, resulting in too many half-siblings growing up in the same area, increasing the risk that blood relatives might unknowing end up in sexual relationships.

In 2004, Canada’s Assisted Human Reproductive Act was changed to make it illegal to pay for sperm, the rationale being that sperm should not be considered a traditional commodity. How long did it take for Canada’s donor pool to begin shrinking?

“It was immediate,” says Dr. Thomas Hannam, who runs the Hannam Fertility Centre in Toronto, Ontario.

Nationwide, there are now between 30 and 70 sperm donors. A person seeking donor sperm from a Canadian of South Asian heritage will have, according to Hannam, only one option. At one time, Canada had more than 40 domestic sperm banks. Now it has only one: The Toronto Institute for Reproductive Medicine (ReproMed) in Ontario, which has seen its donor pool shrink dramatically.

“As a Canadian sperm bank, we have experienced a significant decrease in the number of men wishing to become semen donors since 2004 when payments were banned,” Dr. Tamer Said, director of the Andrology Laboratory & Reproductive Tissue Bank at ReproMed, writes in an email. “We have been fortunate in the last couple of years in finding a limited number of men who are still willing to donate on an altruistic basis provided that we can cover their expenses associated with donations.”

Some countries that have banned payment for sperm have attempted to create a national model based on altruism. Research on sperm donors in Sweden, for example, indicated that most donated sperm because they wanted to help others (*Ups J Med Sci* 2008;113:305–14). However, the country still had a shortage of sperm donors, and many fertility clients sought treatment in other countries.

But if payment is definitely not an option, the altruistic model may be the best alternative, many experts say. According to Hannam, if more resources were put into advertising the cause, sperm donation might become more commonplace, like blood donation is today. “If you normalize it, I expect it would get quite a bit of support,” he says.

Said says he supports the notion that gametes shouldn’t be viewed as commercial entities, but he does believe that sperm donors deserve reasonable reimbursement for the expenses they incur during their visits to a sperm bank. “Semen donations are unique; donors have to frequently visit the sperm bank for many months. It is unrealistic to expect that people would be willing to pay out of their pocket to provide donations,” Said writes in an email.

Though Hannam also believes that sperm should not be viewed as a mere commodity, he notes that Canada’s nonpayment policy doesn’t mean Canadian fertility clients aren’t paying for sperm — they just aren’t paying for Canadian sperm. About 80% of the donor sperm used in Canada comes from the United States, where donors are paid.

“It has set us up to rely on American importers,” says Hannam. “That is fine, if you believe paying people for their sperm is fine.”

The donor shortage that has resulted since payment was banned has limited the choices available to Canadian fertility clients. Couples seeking treatment generally prefer to have children with certain traits — height, hair colour, skin colour — similar to their own. Today, Canadian clients will typically have a choice of only three donors who meet their criteria. This lack of variety may be one reason people might consider looking online for sperm, though Hannam says that would be unwise, for several reasons.

“The obvious one is health,” he says. “The screening for sperm donors at clinics is rigorous, to say the least, and that is to protect patients. The one people may not be aware of is the emotional risk. There is so much room for exploitation.” — Roger Collier, *CMAJ*

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