

Belitsky discounts the notion that Viagra is a quick fix for more complex underlying problems. "Whatever helps people has to be good," he says, "and erectile dysfunction is so distressing for both men and women."

Pfizer Canada, which is located in Kirkland, Que., is also dealing with a "steady stream of calls from physicians, pharmacists and patients," says Don Sancton, the associate director of corporate affairs.

Since going on sale in the US in mid-April, the drug has been prescribed to more than a million American men — 85% between the ages of 50 and 70 — and sales are expected to top \$400 million this year. It already outsells Prozac (fluoxetine), and like Prozac, Viagra has become a household word thanks to front-page articles and its appearance on TV shows like NYPD Blue.

Both Sancton and Belitsky say the publicity surrounding the new drug has had a positive side effect: it has brought ED out of the medical closet and made it part of daily conversation.

"Viagra has done more than we have as physicians to bring erectile dysfunction into the forefront," says Belitsky. "Patients are suddenly talking to doctors about it. People are talking about it around the water cooler. Erectile dysfunction has become a socially acceptable disorder." Pfizer estimates 2 to 3 million Canadians suffer from ED, yet only 5% to 10% seek treatment.

Pfizer submitted the drug to Health Canada in December 1997. Dr. Paul Roufail of Health Canada's Bureau of Pharmaceutical Assessment says it is going through standard safety and efficacy reviews, which will be completed within the targeted 300 days and likely by mid-October.

What will it cost?

A month or so later it should be on pharmacy shelves, but at what price? Pfizer isn't sure yet, but south of the border the drug wholesales for US \$7 per tablet, and the retail price can be as much as US \$14. Canadian insurance companies are already gearing up to cover the drug's cost, and by September or October Blue Cross may even begin reimbursing users for Viagra purchased in the US.

Sildenafil's impact on impotence was inadvertently discovered in England by Dr. Ian Osterloh, who was testing its efficacy in controlling angina and hypertension. He gave it to some volunteers in Sandwich, England, who reported the intriguing side effect; it has since been tested on more than 4000 men with erectile dysfunction. It is the first in a new class of drugs known as phosphodiesterase type-5 inhibitors, which increase blood flow to the penis by selectively blocking the enzyme phosphodiesterase type 5. That enzyme breaks down cyclic guanosine monophosphate (cGMP), which is needed to allow blood to flow into the penis. Patients are advised to take a 25-, 50- or 100-mg tablet about 1 hour before sexual activity. The drug only works with sexual stimulation; it is not an aphrodisiac.

Reports from the US indicate that the drug is perceived as a potency pill, not merely a cure for impotence. However, Sancton says Viagra is only indicated for the treatment of erectile dysfunction. "There's no indication it increases desire, or of the effect on men without erectile dysfunction," he says. ?

FPs can expect a barrage of questions

Family physicians will undoubtedly be barraged with questions about Viagara — if they haven't been already. Dr. Alvaro Morales, the Queen's University professor of urology who headed the drug's Canadian trials, says patients have to be warned of potential side effects and doctors need to take some precautions before prescribing it.

- The drug should only be considered only after a physical examination and medical history have confirmed a diagnosis of erectile dysfunction and determined any underlying causes, such as diabetes, that may also require treatment.
- Patients taking nitrates in any form, including nitroglycerin and long-acting nitrates commonly used for chest pain, should not take Viagara because large and sudden drops in blood pressure can occur when the drugs are combined. "Even if your patient hasn't taken nitrates in 6 months, don't pre-

- scribe," warns Morales. "They may have heart palpitations during sex and decide to take nitrates."
- Patients have to be warned of common side effects.
 In order of prevalence these include headaches, facial flushing, dyspepsia, nasal congestion and visual problems (a bluish discolouration and difficulty differentiating blue from green). Morales says all side effects disappear within 3 to 4 hours.
- Warn patients not to take more than 1 tablet per day, and never more than 100 mg, says Morales.
 "Beyond 100 mg the efficacy doesn't increase but the potential side effects double."
- Because sexual intercourse increases the heart rate as well as the cardiac work load, physicians may want to assess patients' cardiovascular status prior to their resumption of sexual activity or initiation of any treatment for ED.