

# Botox beats implant for urinary urgency incontinence in women

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(HealthDay)—For women with bladder incontinence who haven't been

helped by medications or other therapies, Botox injections may help control leakage better than an implanted nerve stimulation device, a new study suggests.

However, both treatments are effective, according to doctors who treat the condition.

In a head-to-head comparison, [women](#) given Botox saw their number of daily urgency incontinent episodes decrease by four, on average, compared to three for women who received the implant, called InterStim.

Botox patients also said they had a greater reduction in symptoms and were more satisfied with the treatment, the researchers said.

"Many women suffer from urgency incontinence and find inadequate relief of their problem from medications or behavioral changes," said lead researcher Dr. Cindy Amundsen. She's a professor of obstetrics and gynecology at Duke University in Durham, N.C.

"Both therapies appear to be very good options for women," Amundsen said. The differences in effectiveness between Botox and InterStim were small, but statistically significant, she added.

Urgency incontinence causes a strong, sudden need to urinate, according to the U.S. National Institutes of Health. The condition is also called [overactive bladder](#). Urgency incontinence is common. The problem affects about 17 percent of women over 45, and 27 percent of women over 75, the study authors noted.

Botox works by relaxing the overactive bladder muscles that cause the problem. The implant does the same thing by sending electrical pulses to nerves in the spine, the study authors explained.

Among women who kept track of their incontinence for at least four months, far more women who received Botox reported a 75 to 100 percent reduction in urgency incontinence symptoms compared to those using InterStim, the researchers reported.

Although Botox appeared to work better than the implant, women given Botox had a greater risk of urinary tract infections, compared to women with the implant—35 percent versus 11 percent, respectively. Also, more Botox patients needed to use a catheter to relieve urinary retention, Amundsen said.

"These side effects didn't really influence how patients thought about Botox," she said.

The most common side effect for women given the implant was the need to remove or reinsert it. But this occurred in just 3 percent of the women with the implant, the study reported.

The study didn't compare the costs of these U.S. Food and Drug Administration-approved treatments, which are covered by insurance, including Medicare. However, patients may need more than one Botox injection a year, Amundsen said.

The researchers are following the women for two more years and will have data on which treatment is the most cost-effective.

The report was published Oct. 4 in the *Journal of the American Medical Association*.

For the study, Amundsen and her colleagues randomly assigned nearly 400 women to an injection of Botox or InterStim. The women had to have had at least six urgency incontinent episodes over three consecutive days. The women in the study also didn't get relief from other

treatments. The participants were followed for six months.

According to Dr. Elizabeth Kavalier, "There are two kinds of urinary incontinence—urgency incontinence and stress incontinence. These treatments work for urgency incontinence." Kavalier is a urology specialist at Lenox Hill Hospital in New York City, and was not involved with the new study.

About 80 percent of patients have their incontinence controlled by medication, Kavalier said. "The 20 percent who don't respond to medication can either do Botox or the implant," she explained.

Opting for one treatment doesn't mean you're barred from trying the other one, Kavalier said. If the Botox doesn't work, you can switch to the InterStim or vice versa, she said.

Both treatments work, Kavalier said.

"They have different side effects and different trade-offs, and it's up to the patient and the doctor together to figure out which of those trade-offs they are willing to tolerate," she said. "Usually the discussion is about what they don't want, rather than what they do want, because both treatments are good—it's all about side effects."

**More information:** For more on bladder incontinence, visit the [U.S. National Institute on Diabetes and Digestive and Kidney Diseases](#).

Cindy L. Amundsen et al, OnabotulinumtoxinA vs Sacral Neuromodulation on Refractory Urgency Urinary Incontinence in Women, *JAMA* (2016). DOI: 10.1001/jama.2016.14617

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