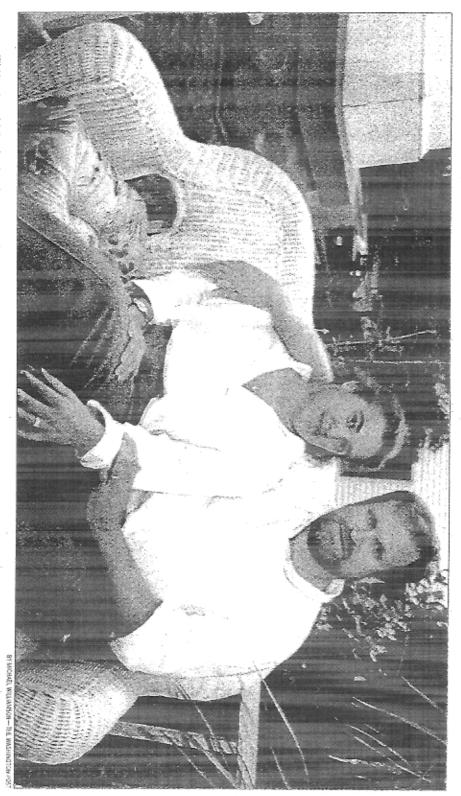
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Jill Murphy, with her husband, Luc, at their Alexandria home, suffered fertility problems stemming from her mother's use of diethylstilbestrol, or DES.

Children of Women Given the Hormone DES Decades Ago Now Cope With Their Own—and Even Their Children's—Health Problems

by LEEF SMITH Washington Post Staff Wister

er's womb. daugnter, Jul, the only child to survive her moth-She miscarried six babies before the birth of her recounts a long succession of failed pregnancies It is with numb precision that Chris Vanselous

seemed possible. would help them build families where none would be mothers were prescribed from 1938 to DES, a drug that she and nearly 5 million other itary healthy delivery to diethylstilbestrol, or 1971 under the belief that the synthetic hormone And for years Vanselous gave credit for that sol

was seven months pregnant. "He said I'd have a 20 of the small red DES tablets a day when she recalled Vanselous, 68, who was taking as many as "My doctor told me he had the magic bullet,"

vagina, to those exposed to the drug in the womb. Other children, like Vanselous's daughter, Jill was halted in 1971, after a study linked clear cell child. Widespread use of DES on pregnant women did it prevent miscarriages, according to research that began appearing in 1953. What it did lead to bigger, healthier, brighter child."
But DES did not lead to healthier babies, nor adenocarcinoma, a rare cancer of the cervix and was a host of health problems for mother and

Murphy, suffered malformed reproductive



mother and child the hormone was outcomes, but pregnancy found to harm

IMAGES COURTESY OF DIS ACTION

tively robbing many of the chance to bear their fertility, tubal pregnancies and miscarriage, effecgans, which would later lead to increased in-

and varicose veins on the testicles. Now, research dren, who face an increased risk for epididyma aware that they were exposed to the drug and may group-the oldest are young adults-are unwho took DES. Experts worry that many in this third generation-the grandchildren of women is beginning to emerge about possible risks to a cysts---non-cancerous growths on the testicles--be at risk for health complications. Exposure to the drug also harmed male chil-

cation campaign. Rolled out in March, the effort, known as DES Update, features a Web site cludes a component to help individuals assess sumers and health care providers. The site also indrug and disseminate the newest research to con-(www.cdc.gov/DES) to explain the impact of the (CDC) spent three years developing a public edu-Centers for Disease Control and Prevention their own possible exposure. ic's fading memory of DES and its dangers, the Because of that concern, coupled with the pub-

"In a sense this is a very important time in the

Generation DES Children

3S, From F1

ES story because our ability to ask womwho took DES if they did is passing, d physicians who prescribed the drug ve gone out of practice or their records ? destroyed," said CDC spokeswoman arsha L. Vanderford. "While the opportity to find out if you were exposed is exing... the health effects are ongoing." Vanselous recalls she was sitting in a ir salon in 1971, idly flipping through a men's magazine, when she happened an article about DES and its newly esplished link to vaginal cancer.

She kept the news from her daughter for years until Jill began to menstruate, a newhen specialists recommended the unggirl be examined for complications. sts revealed that Jill had a malformed wix, a common result of DES exposure. In the state of vaginal cancer until her twens. There were, as far as researchers ew, no other problems associated with drug.

But the other risks of DES became clear 1998 as Murphy, then 34, and her husnd, Luc Murphy, began to try to have ildren.

Murphy repeated her mother's history failed pregnancies. Tests revealed she is a T-shaped uterus, a classic symptom exposure to DES. After three failed egnancies, the Alexandria couple conled they would have no biological chilen.

"I knew about the cancer but never, evwas I told that I could have fertility blems," said Murphy, one of thousands women who have filed suits against DES ag makers and won settlements since 79. "DES took my right to have chilen. It took the rights of thousands of men."

While damage claims have not been sy to prove, almost every case has been tled before trial, with payouts ranging m \$50,000 to \$4 million. Publicity from se lawsuits and years of grassroots ornizing by women's health groups led ngress in 1992 to create a program of search, outreach and education about is.

Every year scientific studies reveal new percussions of the drug, which was takby an estimated 4.8 million women, to then exposed an estimated 4.8 million iddren.

To date, most of the research has fosed on the troubles suffered by daughs exposed in utero. According to finding published in 2001 in the American



Lisa Summers, pictured above and below with her adopted 8-year-old son, Nicholas, was left unable to bear children because of her exposure to DES in the womb.

Journal of Epidemiology, these women have a higher infertility rate and are two times more likely to have a miscarriage or premature labor than unexposed women. A study released last year by National Cancer Institute researchers showed, at least preliminarily, that DES daughters over age 40 are 2.5 times more likely to experi-

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ence breast cancer than unexposed women

risk of testicular cancer, among these men. Third-generation children—the offto monitor health problems, such as the by the National Cancer Institute continue no health effects have consistently been found in DES sons. But studies sponsored With the exception of testicular cysts

vant health problems can be studied. Research published last year by the Netherlands Cancer Institute suggests

just beginning to reach the age when rele spring of DES daughters and sons-are

quently among third-generation sons. the penis-occurred 20 times more frethat hypospadias—a misplaced opening of Experts urge caution about the future.

and lymphomas were found. Third-generacertain reproductive tract tumors. uterine cancers, benign ovarian tumors In laboratory studies of elderly third-generation DES-exposed mice born to DES daughter mice, an increased risk of tion male mice were shown to be at risk for

dence of reproductive abnormalities and Researchers continue to look for eviamong third-generation DES

grandmother's use of DES. ogy suggested a possible link between a 15-year-old girl's rare case of small-cell ca-rinoma of the ovary and her maternal Journal of Pediatric Hematology/Oncol-A report published in August in the

last few years. (See sidebar below.) characteristics have also emerged in the link to sexual orientation and transgender Questions about DES and its possible

stoff, a professor at Dartmouth Medical School who authored a paper this year on the psychosexual characteristics of men and women exposed to DES in the womb. As for "transgender mixups," she said, evably one of the things we'll never know."
Still, she added, "if DES had a big impact can't study it in a scientific way. It's prob idence has been "extremely rare, so we "It's a very interesting question and frustrating for us," said Linda Titus-Ernon sexuality), we'd see it."

Breakthrough?

orally administered synthetic estrogen. Two years later, the Rood and Drug Administration (FDA) approved the drug, DES, as a treatment for menopausal symp-Dodd who in 1938 synthesized the first was English biochemist E. . Charles

high doses of DES could prevent mis-Olive Watkins Smith, who theorized that after publication of an article by Harvard University professors George Smith and DES started to become popular in 1947

said Pat Cody, founder of DES Action, a nonprofit group for people exposed to the it not prevent miscarriages, but DES mothers had more of them." drug (www.desaction.org), "Not only did "They couldn't have been more wrong,

The truth about DES didn't surface un-til 1953, when William Dieckmann, a docing pregnancy. His conclusion: DES was double-blind study on the use of DES dur-Hospital, conducted the first controlled, tor at the University of Chicago's Lying-In mettective against miscarriage.

said Cody, 80, who was put on DES two years after Dieckmann's study was published. She took the pills four times a day until her 37th week of pregnancy. In total she ingested more than 10 grams of DES—as much estrogen as is found in 500,000 of today's low-dose birth control pills, she said. "But [they] kept right on prescribing,"

the drug to eight rare cases of vaginal can-cer in DES daughters. It would be nearly 16 years before the research of Arthur Herbst, a physician at Massachusetts General Hospital, linked

ulating livestock growth. Today it is main The FDA responded in 1971 by issuing a bulletin to physicians. It said DES should not be prescribed for pregnant women. ly used in veterinary medicine to treat toms, to suppressing breast milk and stimcancer and acne and menopause symp-Paving the way for other hormone replace-ment therapies, DES was later used for hundreds of treatments—from prostate incontinence in dogs and cats.

The Next Generation

while pregnant. agnosed with clear cell adenocarcinoma; She was the 13th cancer patient linked by Herbst to DES, a drug her mother took Carol Perry, 48, was 16 when she was di

"She didn't even finish the prescription," said Perry, who had a partial hysterectomy and vaginal reconstruction in 1971, days after being examined by Herbst. "I know she feels a certain amount." then you did what your doctor told you to do. You didn't question him." of guilt about taking the drug, but back

a support group that links more than 300 band and two adopted children, is co-chairwoman of the DES Cancer Network, Perry, who lives in Fairfax with her-hus-

we don't know what the upper age limit [for developing cancer] is." have to worry about cancer anymore. But "The problem now is that a lot of doc-tors are telling [DES daughters] that if they've passed a certain age, they don't

might be a second wave of health problems In fact, researchers wonder if there

only in their teens. Today cancer is considered a particular lifelong threat for DES on she has made regular visits to a gyne-cologist specializing in DES and kept track at that time were thought to strike women of the research into vaginal cancers, which posed to DES in the womb. From that time as more DES daughters reach menopause. Lisa Summers, 47, of Silver Spring learned as a 19-year-old that she'd been ex-

lead to her own trouble carrying a baby. But Summers, a nurse-midwife, did not know until years later that the drug would

same cycle as her mother had been. before she realized she was caught in the child, she and her husband tried in-vitro fertilization. Summers said it wasn't long It was a crushing blow. Desperate for a

said Summers, who adopted a son eight "Here I was, trying to get pregnant, shooting myself with all kinds of drugs and little research on their long-term effects, normones for which there is remarkably

> it's not doing any good. We need to re-member that." risks, and that's perfectly reasonable to do, but DES was a drug that continued to be prescribed long after there was data to say time we expose ourselves to unknown ing to be aware of for a long time. Somethere are effects of drugs that we're not go-"The lesson here is that sometimes

Washington lawyer Aaron Levine has handled hundreds of lawsuits claiming damages from the drug; today he represents 120 DES plaintiffs. The courts, he said, are now grappling with whether liability should extend to third-generation in

nity looked the other way. They didn't want to admit the mistake they made." "DES was the biggest nostrum in quack-ery since snake oil," Levine said. "It never should have because the medical commuworked. But DES hasn't gotten the play it

Jill Murphy filed suit against Eli Lilly, once the largest distributor of DES, in 1999 and the company settled the case. she said, but the money will enable her and The amount she won remains confidential

husband to adopt a child later this year. About this Murphy is matter-of-fact: "Someone had to pay for family-building,"

Resources

- www.cdc.gov/DES ■ CDC's DES Update: 888-232-6789
- m DES Action USA: 800-DES-9288 or www.desaction.org
- DES Cancer Network: 800-DBS-NET-4, www.descancer.org
- gen@aol.com ■ DES Third Generation Network: desS
- group/des-sons ■ DES Sons' International Network: 250 595-6173, http://groups.yahoo.com/
- DES Sons Network: Contact Michael Freilick at msfreilick@hotmail.com