A FOCUS ON DIETHYLSTILBESTROL

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DES Daughters At Increased Risk For Endometriosis

"In utero exposures and the incidence of endometriosis" by Stacy A. Missmer et al, Fertility and Sterility, Vol. 82, No. 6, December 2004.

Reviewed by Sally Keely, M.S.

This prospective cohort study shows a link between in utero diethylstilbestrol (DES) exposure and the incidence of endometriosis. Endometriosis is a painful chronic disease occurring when endometrial tissue is found outside the uterus. This misplaced tissue develops into growths or lesions that respond to the menstrual cycle in the same way that the tissue of the uterine lining does each month it builds up, breaks down, and sheds. The blood and tissue shed from endometrial growths has no way of leaving the body resulting in internal bleeding and inflammation that can cause pain and infertility.

DES exposed persons have altered estrogen receptors and an increased risk of autoimmune disorders. These factors are associated with endometriosis. It has been suspected therefore that DES Daughters are at increased risk of endometriosis. This study confirms it.

"... the relation between DES exposure and endometriosis may result from a combined effect of increased retrograde menstruation, immune dysfunction, and exogenous estrogen exposure."

Participants in the Nurses' Health Study II (NHSII) which began in 1989 and spanned ten years of followup included over 84,000 female nurses aged 25-42 who had (at baseline in 1989) never been diagnosed with endometriosis, infertility, or cancer. Data were collected regarding their in utero environment (including DES exposure) and birth/

decreased (under 5.5 pounds). sis increased linearly as birth weigh ifter controlling for birth weight. multiple were at increased risk even ing findings interested me And most importantly to us, (1) The incidence of endometric Women who were born as a The follow-

study to be very well conducted rather than inclusive. So although The researchers were exclusive As a mathematician I find this

dence of endometriosis among DES

That is close to double the inci-

among Daughters with concurrent Daughters and it was even greater

but that any DES exposure of five or not affect the rate of endometriosis, compared to those exposed for less more weeks nearly tripled the rate mester of initial DES exposure did DES exposed cases showed, "the tri Further analysis of the affected dometriosis. The results are statistiextremely important! cally sound,

and for DES Daughters

www.endometriosisassn.org study with you online in the new For more information about en-DES Action DES-Daughters listserv I look forward to discussing this

In utero DES exposed persons have altered estrogen receptors and an increased risk of autoimmune disorders. These factors are associated with endometriosis.

We know that DES Daughters are more likely to present with anatomical complications such as cervical stenosis (narrowing of the cervical canal, sometimes to the point of closure) that may increase the likelihood of retrograde menstruation. In utero

newborn data.

During the study 1226 cases of incidence of laparoscopically confirmed endometriosis were compared according to birth weight, prematurity, multiple gestation, DES exposure and,

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utero DES exposure and enshows a significant link between in posed participants with endometriosis was small (21 cases), this study