Table 2.3.1: Cohort studies on relationship of endocrine disruptors with endometrial cancer

					Relative risk (SMR, SIR, etc.) by category				
Region and subjects	Number of subjects	Follow-up period	Compound	Confounders considered	1	2	3	P trend	
Hoover, 1997									
Kentucky, U.S. White women treated with oral premarin (synthetic estrogen) in a private hospital Retrospective study	908, of which 21 used DES 1939-69 concomitantly		DES (used concomitantly with premarin)		O/E=3/0.1, SIR 30 (95%CI	: 6.2-87.7)			
Bibbo, 1978									
U.S. RCT Groups treated and not treated with DES in 1951-52	2162; 840 exposed, 806 unexposed (interviewed were exposed 693 and unexposed 668)	Up to 1976-77	DES	Age of menarche, number of pregnancies, number of children delivered, age of menopause, history of reserpine use, oral contraceptive use, estrogen therapy, hysterectomy, family history, body height (no difference between exposed and unexposed group)	Prevalence: 4 (0.6%) expos	ed, 1 (0.2%) unexposed			
Titus-Ernstoff, 2001									
Boston, U.S. Mothers Study cohort (1980s) and Dieckmann Study cohort (1950s)	7560 (3844 exposed, 3716 unexposed)	Up to 1994	DES	Age, calendar year, age x calendar year (adjusted) Age at participation in the program, age, calendar year, BMI, education, family history, age of menarche, oral contraceptives, miscarriage, age of the first delivery, pregnancy, age of menopause, hormone therapy, hysterectomy, smoking history (e.g. more miscarriages in the exposed group)	Relative mortality risk (959 0.71(0.28-1.75)	6Cl)			

Table 2.3.2: Case-control studies on relationship of endocrine disruptors with ovarian cancer

	Comparison of serum levels			Odds ratio by category					
Region and number of subjects (case/control)	Compound	Case	Control	P value	1.00	2	3	4	P trend
Donna, 1984									
Alessandria, Italy Hospital-based 60/127	Pesticides				Ovarian mesothelioma 1.00 1.00	Certainly exposed Probably exposed	+ probably exposed; 4 ; 2.20(0.77-6.32)	.38(1.90-16.07)	
Donna, 1989									
Alessandria, Italy 20-69 year old women Patients in hospitals Controls from local population 65/137	Triazine All subjects Farm workers only				1.00 1.00	Probably exposed 1.6 (0.8-3.0) 2.1 (0.8-5.2)	Certainly exposed 2.3 (0.9-5.7) 3.0 (1.1-8.5)		
Glinda S, 2004					Epithelial ovarian cance	er			
Los Angeles, U.S. 18-74 Year old women registered in Cancer Surveillance Program 20% of controls from Health Care Financing Administration registry, 80% from the neighborhood Population-based 356/424	phenolphthalein Use of phenolphthalein-containing laxatives				1.00	Unexposed 1.1(0.75-1.5)			0.9

Table 2.3.3: Ecological studies on relationship of endocrine disruptors with ovarian cancer

		Comparison of serum levels			Odds ratio by category					
Region and number of subjects	Compound	Case	Control	P value	1(Low)	2	3	4(High)	P trend	
Schreinemacher, 1999										
4 Regions in Minnesota, U.S. 1980-89 Whites	Ethylenebisdithiocarbamates and othe herbicides (?)	r			SRR (95% CI) (cor Region 1 (corn, so 0.84(0.76-0.92) Region 2 (wheat, c 0.65(0.52-0.82) Region 3 (potato, v 0.89(0.72-1.10)	mpared with urban ybean) orn, soybean) vheat, sugar beet; h	and forest areas) eavy use of pestic	cides)		
Schreinemacher, 2000										
U.S. Whites 152 Counties in Minnesota, North Dakota, South Dakota and Montana producing spring wheat and durum wheat treated with chlorophenoxy herbicides 1980-89 Ecological study	Chlorophenoxy herbicides				SRR (95% CI) for 23,000-110,999 ac ≥111,000 acres	counties with acrea	ge < 23,000 acre:	5		
Hopenhayn-Rich,2002										
120 Counties in Kentucky, U.S. 3.7 Million of population (92% whites)	atrazine Score calculated from concentration in p	ublic tan water corn acreage	e and atrazine sales		OR (95% CI) by ca Total score	tegory adjusted for	incidence (low g	group as reference	category)	
Data from 1993-97 Ecological study				1.00 Atrazine sales sco 1.00 Corn acreage 1.00 Public tap water 1	1.01(0.83-1.21) (e 1.06(0.92-1.22) (0.95(0.82-1.10) (vel 0.98(0.85-1.14) (0.77(0.66-0.90) 0.86 (0.73-1.01) 0.83 (0.71-0.97)	0.76(0.65-0.88) 0.80(0.67-0.96) 0.76(0.64-0.90) 0.85(0.73.0.98)			
Koifman 2002					1.00	0.98(0.83-1.14)).90 (0.78-1.04)	0.83(0.75-0.98)		
11 States in Brazil Data from 1996-98 Ecological study	Pesticides				Correlation factor 1990s) 0.71(-0.14-0.85)	(95% CI) (pesticide	e sales in 1985 w	ith ovarian cance	r mortality in	