

Studio sulla salute

della



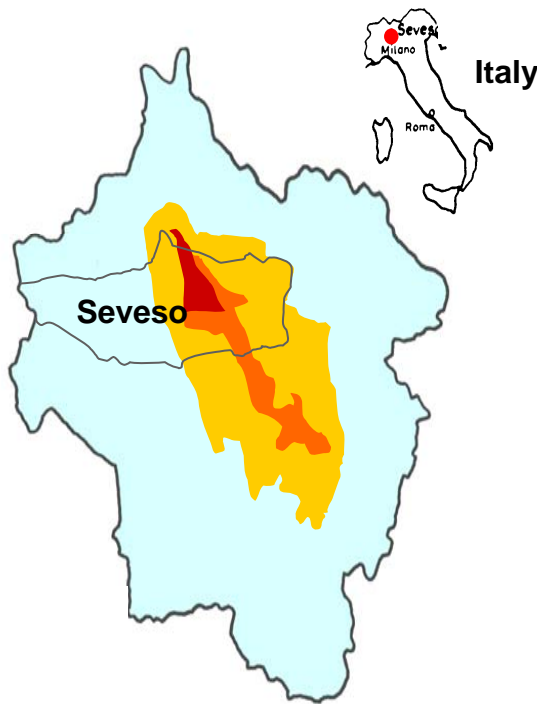
popola
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femminile di Seveso

The Seveso Accident

- July 10, 1976, in Seveso, Italy, a 2,4,5-trichlorophenol reactor exploded
- Released an aerosol cloud of sodium trichlorophenate, sodium hydroxide, and TCDD over a 18 km² area
- Contaminated area divided into three major Zones (A, B, R) based on soil TCDD levels
- 193 cases of chloracne were reported
- High animal mortality observed almost immediately

Map of the Contaminated Area



soil	Range of	
	N	TCDD
($\mu\text{g}/\text{m}^2$)		
Zone A	750	15.5 -
5,477		
Zone B	5,000	ND - 43.8
Zone R	32,000	ND - 9.7
non-ABR	180,000	Not
detected		

Mocarelli et al, 1991

In Utero or Postnatal TCDD Exposure in Animals

- **Malformations of genitourinary tract**
 - **Increased fetal resorptions / fetal mortality**
 - **Lower birthweight of offspring**
 - **Delayed onset of puberty**
 - **Decreased fertility**
 - **Decreased uterine weight**
 - **Increased incidence / severity of endometriosis**
 - **Altered estrus**
 - **Decreased ovarian weight**
 - **Decreased ovulation rate and number of follicles**
 - **Altered steroid hormone levels (\uparrow FSH, \uparrow LH, \downarrow estradiol)**
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