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Body Burden :

Blood samples from several locations contained octachlorodibenzo-p-dioxin at mean concns as follows (location, concn in parts per trillion lipid wt): Baikalsk, Russia, 57 (whole, n=8); St. Petersburg, Russia, 89 (whole, n=60); North Vietnam, 132.3 (whole, n=82); **South Vietnam, 696.4** (whole, n=383); Germany, 610.3 (whole, n=102); USA pooled, 1174 (plasma, n=100); **Guam 748.6** (whole, n=10)(1). The concn of octachlorodibenzo-p-dioxin in individuals from Sweden with no, normal and high fish consumption were 357, 458, and 473 pg/g lipid, respectively(2). Whole blood from German mothers (collected in 1989) contained octachlorodibenzo-p-dioxin at a mean concn of 610 pg/g lipid (range, 145-1524 pg/g lipid)(3). Serum samples collected in 1993 from 11 donor with no known exposure to dioxins in Madrid, Spain contained octachlorodibenzo-p-dioxin at an avg concn of 397.03 (range 117.05-690) pg/g fat wt(4). Plasma samples from 20 non-occupationally exposed individuals living in Tarrogon, Spain contain octachlorodibenzo-p-dioxin at a mean concn of 640.5 pg I-TEQ/g lipid (n=20; range, 137.0-993.0 pg I-TEQ/g lipid)(5). Blood samples from 50 normal Japanese women volunteers (approx 20 yo) collected between June 1993-1994 was found to contain octachlorodibenzo-p-dioxin at an avg concn of 310 (range, 110-1000) pg/g lipid wt(6). Adipose, spleen, and kidney tissue samples from 50 normal Japanese women volunteers (approx 20 yo) collected between June 1993-1994 was found to contain octachlorodibenzo-p-dioxin at an avg concns of 2,500 (range, 170-16000) pg/g lipid wt; 1,100 (range, 170-5,400) pg/g lipid wt; and 690 (range, 120-3,500) pg/g lipid wt, respectively(6). The mean concn of octachlorodibenzo-p-dioxin in 8 normal subjects from Japan collected in 1989 was 2,000 pg/g lipid (range, 160-13,000 pg/g lipid)(7). Human blood from individuals living in Germany were as follows (period, concn in pg/g lipid)(8): 1989, 625 (n=228); 1991, 446 (n=95); 1992, 462 (n=157); 1993, 340 (n=17); 1994, 231.0 (n=74); 1995, 293 (n=69); 1996, 257 (n=95); 1997/98, 320 (n=9); 1989-1998, 441 (n=744).

[(1) **Schecter A et al**; Chemosphere 25: 1129-34 (1992) (2) Rappe C; Chemosphere 25: 231-4 (1992) (3) Papke O et al; Chemosphere 29: 2355-60 (1994) (4) Jimenez B et al; Chemosphere 33: 2403-10 (1996) (5) Schuhmacher M et al; Chemosphere 38: 1123-33 (1999) (6) Iida T et al; Chemosphere 38: 3497-502 (1999) (7) Iida T et al; Chemosphere 38: 2767-74 (1999) (8) Wittsiepe J et al; Chemosphere 40: 1103-9 (2000)] ****PEER REVIEWED****