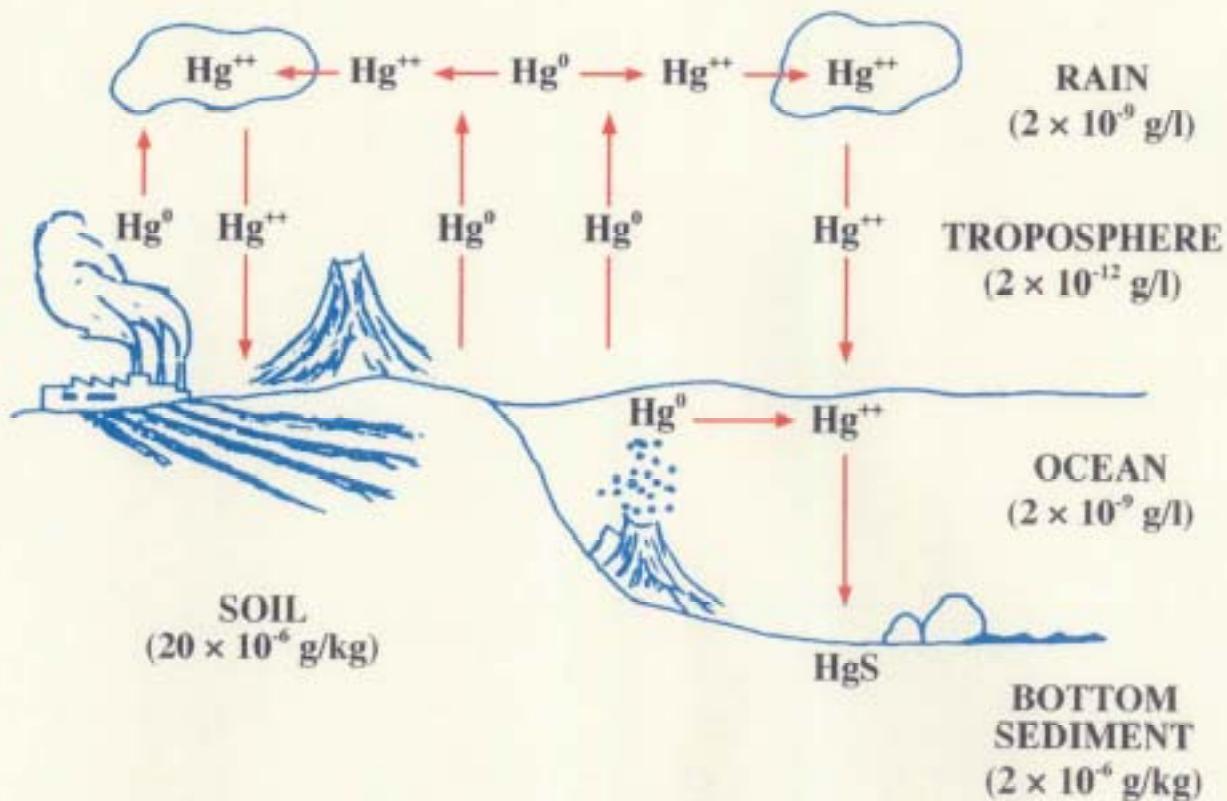


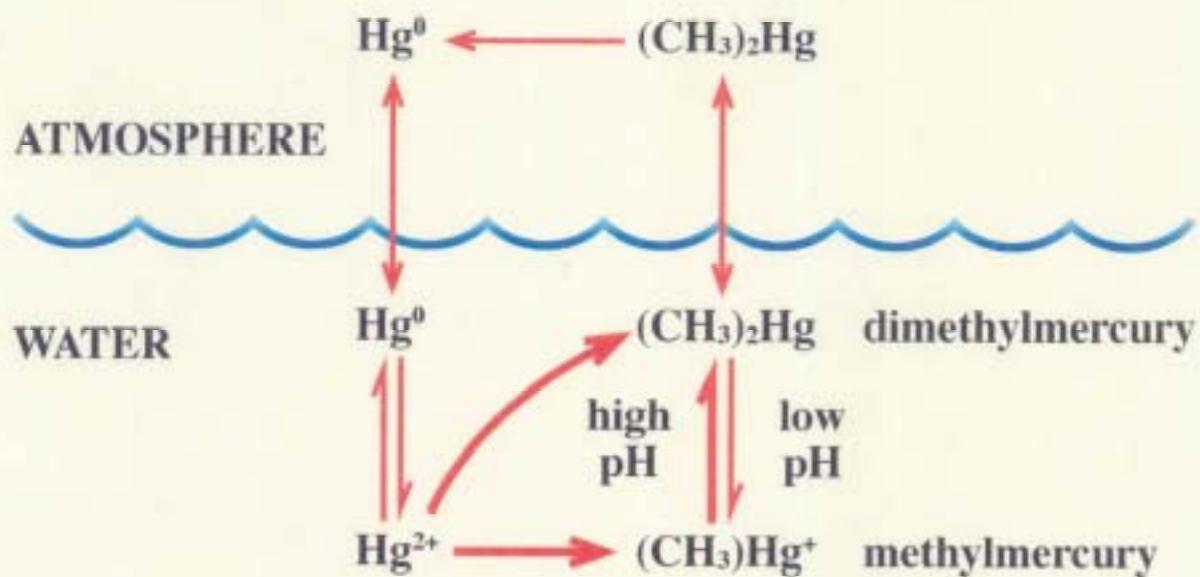
- The general population does not face a significant health risk from methylmercury. The fetus is at particular risk. A prudent interpretation of the Iraqi data implies that a 5% risk may be associated with a peak mercury level of 10-20 $\mu\text{g/g}$ in maternal hair (during pregnancy).

- 胎児がリスクに曝されている集団
- 妊娠中のピーク毛髪水銀濃度が 10-20 $\mu\text{g/g}$ で
5%のリスクがあると考えるのが妥当

(WHO/IPCS, 1990; Environmental Health Criteria 101 Methylmercury 1990)



Environmental cycles of mercury



Heavy arrows: biomethylation processes

食物連鎖(エルトンのピラミッド)



Recent Epidemiological Studies

■ New Zealand

4 yr-old (maternal hair Hg > 6mg/kg)

Motor functions: Abnormal or questionable

6 yr-old (maternal hair Hg > 10mg/kg & 6-10mg/kg)

Poorer performance in WISC-R

■ Faroe islands

7 yr-old (maternal hair Hg median 4.5mg/g)

■ Seychelles islands

6, 19, 26, 66 months-old





水銀曝露の指標と神経心理学的検査得点との関係

水銀濃度：臍帯血 母親毛髪

		*	*
Fin-gar-tapping	利き手	*	*
	非利き手	n. s.	n. s.
Hand-eye coordination	Error points	n. s.	n. s.
Persistent reaction time (ms)		***	***
Wechsler Intelligence Test score	Digit spans	*	n. s.
	Similarities	n. s.	n. s.
	Square root block designs	n. s.	n. s.
Bender Visual Test	Reproduction	n. s.	n. s.
Boston Naming Test	No cues	***	*
	With cues	***	*
California Language Learning Test	Short-term reproduction	*	*
	Long-term reproduction	*	n. s.
	Recognition	n. s.	n. s.

n. s. ; not significant.