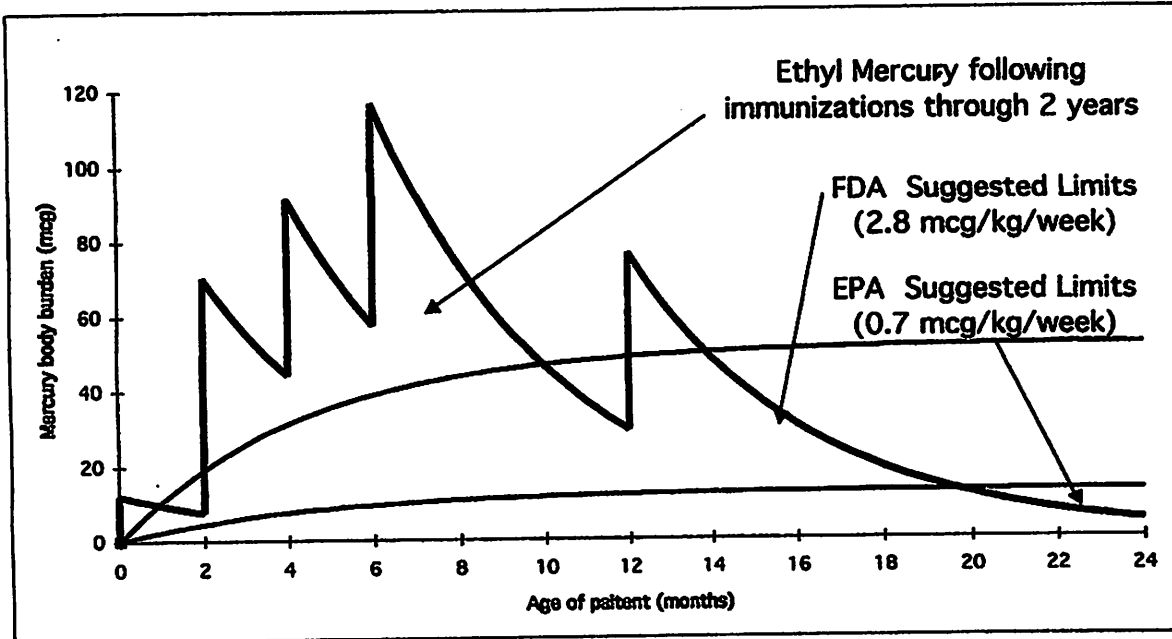
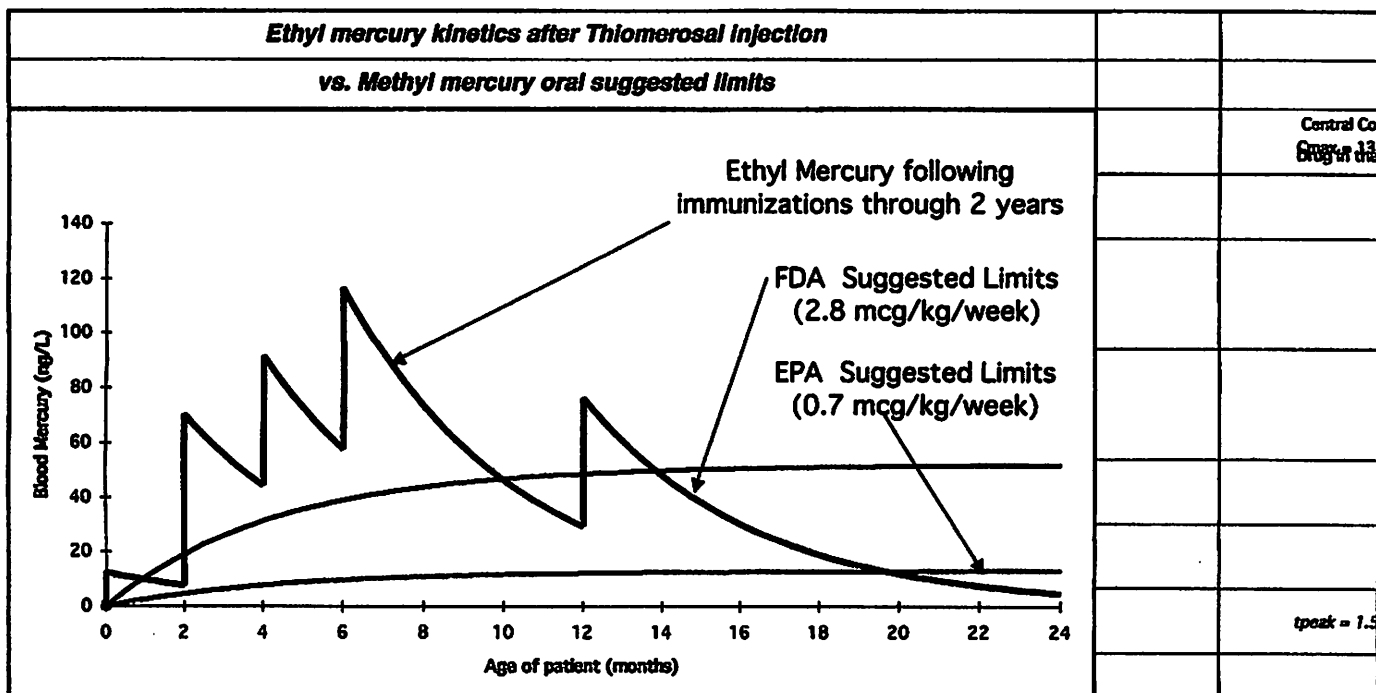


**Ethyl mercury body burden after Thiomersal injections
vs. Methyl mercury oral suggested limits**



Immunization Model: $D = D_0 [exp(-K_e t)]$		Model Parameters	
Oral Environmental model: $D_0 = D_{ss} (1 - exp(-K_e t))$		Te _{lim} (days)	90
Dose History		Te _{lim} (weeks)	12.86
Dose (mcg)	Time (months)	Te _{lim} (months)	3.00
12.5	0	K _e (/month)	0.231
62.5	2	Dose corrected for K_e	
50.0	4	K _e (/week)	0.05
62.5	6*	EPA (0.7 mcg/kg/week)	12.98
0.0	7*	FDA (2.8 mcg/kg/week)	51.9
50.0	12	Te _{lim} (days)	
0.0	18*	95%-tile half-life	90
* Excludes 12.5 mcg influenza		Nominal half-life	52
175.0	6 month total	5%-tile half-life	30
225.0	2 year total	12.98425537	
D _{max} (at 6+mo) = 117		52	

Month	Burden (mcg)	Time	EPA	FDA
0.00	0.00	0.00	0	0
0.00	12.50	0.00	0	0
0.25	11.80	0.25	0.728750257	2.915001027
0.50	11.14	0.50	1.416598905	5.866395619
0.75	10.51	0.75	2.065841574	8.263368297
1.00	9.92	1.00	2.678645053	10.71458021
1.25	9.38	1.25	3.257054515	13.02821806
1.50	8.84	1.50	3.803000349	15.21200139



Immunization Model: $D = D_0 \exp(-K_e t)$		Model Parameters		
Oral Environmental model: $D_0 = D_{ss} (1 - \exp(-K_e t))$		Teim (days)	90	
Dose History		Teim (weeks)	12.68	
Dose (mcg)	Time (months)	Teim (months)	3.00	
12.5	0	Ke (/month)	0.231	
62.5	2	Dose corrected for Ke		
50.0	4	Ke (/week)	0.05	
62.5	6*	EPA (0.7 mcg/kg/week)	12.98	
0.0	7*	FDA (2.8 mcg/kg/week)	51.9	
50.0	12	Teim (days)		
0.0	18*			
* Excludes 12.5 mcg influenza				
175.0	6 month total	95%-ile half-life	90	
225.0	2 year total	Nominal half-life	52	
		5%-ile half-life	30	
			12.98425537	
			52	
Month	Burden (mcg)	Time	EPA	FDA
0.00	0.00	0.00	0	0
0.00	12.50	12.5	0	0
0.25	11.80	0.25	0.728750257	2.915001027
0.50	11.14	0.50	1.416598905	5.666395619
0.75	10.51	0.75	2.065841574	8.263366297
1.00	9.92	1.00	2.678845053	10.71456021
1.25	9.36	1.25	3.257054515	13.02821806
1.50	8.84	1.50	3.803000349	15.21200139
1.75	8.34	1.75	4.318304597	17.27321839
2.00	7.87	2.00	4.80468704	19.21874816
2.00	70.37	62.5	4.80468704	19.21874816