

HYGIENE CARE FOR PEOPLE AT RISK OF LEAD CONTAMINATION.
(Lead Recycling Company (Foundry/Smelting), located in Guayaquil, Ecuador; South America.)

As a concern for the occupational health of the people working at the foundry we have implementing a Chelating treatment in order to drop the lead levels in blood to its normal parameter for people working in this kind of business.

26 Employees began treatment with Bio-chelat, people with at least 40 u.g./dl. of lead in blood. The patients began with the treatment as follows:

First week at 15 drops daily

Second week at 30 drops daily

And Four weeks more at 60 drops daily.

Total weeks of treatment 6.

After finishing the 6 week treatment the patients had another blood test for lead, presenting a good decrease of lead in blood. The following chart has 15 of the 26 patients taking Bio-chelat.

	Nombres	Time @ Job	Age	Lead Test	Lead Test	DIF.
				Before	@ 6 weeks	
1	Arteaga Pareja Cideine	2 years	36	61	40.35	-33.85%
2	Gonzabay Chávez Jose	10 years	29	74	65.4	-11.62%
3	Navas Tinoco Fidel	3 years	28	76	50.4	-33.68%
4	Retto Peñafiel Vicente	7 years	29	51.3	50.7	-1.17%
5	Suárez Suárez Vicente	10 years	47	59	40.95	-30.59%
6	Villamar Reinoso Agustín	10 years	31	44.1	34.6	-21.54%
7	Díaz Cornejo Johnnson	7 years	42	55.5	48.67	-12.31%
8	Muñoz Cedeño Julio	1 year	32	54.8	46.65	-14.87%
9	Jama Pilay Bernardino	3 years	27	70	55.65	-20.50%
10	Díaz Macías Raúl	4 years	31	52.8	44.77	-15.21%
11	Chila Pérez Javier	4 years	33	52.5	38.62	-26.44%
12	Preciado Tamayo Jose	1 year	25	50.5	41.2	-18.42%
13	Santana Toro Johnny	5 year	29	57.8	31.5	-45.50%
14	Cabezas Ramírez Xavier	6 months	25	39.2	28.85	-26.40%
15	Dañin Terán Carlos Luis	10 years	37	40.5	26.17	-35.38%

As we can see patients have dropped their lead levels in an average of approximately 25% not considering patient number 4 because I think he did not follow the treatment at all. Also should be mentioned that no employee was off his job for this period, they all continued working in their usual area.

After this period of treatment looking the good results, I recommend to continue the use of Bio-chelat in order to prevent future toxicity with lead.

Dr. Miguel Aguayo.