



InterClinical
Laboratories

eNews

PRACTITIONER ONLY NEWSLETTER

September 2011, Issue 5

InterClinical Laboratories eNews

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Nutritional, Herbal and Natural Medicines Practitioner Education
Hair Tissue Mineral Analysis Pathology



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In This Issue

[Clinical Updates](#)

[Monthly Specials](#)



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Spring is here, so it is time for detox!

Warmer weather is just around the corner and now more than any other time, patients will come to you looking for natural detoxification treatments.

Natural Medicine practitioners have the upper hand when it comes to natural detox solutions. Hair tissue mineral analysis is fundamental to all your detox programs in order to accurately assess your patient's levels of heavy metals, nutritional elements and how the interaction between them can impact on health. In addition to this, in-clinic tools such as our Heavy Metal and Free Radical tests are easy ways to conduct an initial health screening.

At InterClinical Laboratories, we have a range of nutritional, herbal and whole food supplements that cater to the different pathways of detoxification. *Dunaliella salina* [Algotene] is a marine phytoplankton whole food high in mixed carotenoids and other mineral nutrients. Also in this eNews we discuss the potent antioxidants found in the Acai berry. Our Trace Nutrients practitioner-only range carries a number of detoxification products as well.

Don't forget to keep an eye out for the monthly specials from us and through your suppliers. InterClinical supports practitioners and their detoxification-protocol needs.

Warm regards, InterClinical Laboratories.

Quick Links

[Hair Tissue Analysis](#)

[Natural Health Products](#)

[Newsletter Archive](#)

Practitioner Clinical Updates

Mercurial Effects Upon the Thyroid and Glucose Transport

Mercury is a neurotoxin and perinatal exposure can lead to impairment in neurological development. Normal thyroid function is also necessary for normal neurological development and this fact had therefore led investigators to explore the relationship between mercury and the thyroid. Their studies involving animals has revealed low dose exposure to mercury induces changes in brain deiodinase activities in neonates.



Other research has shown that mercury can also affect glucose transport in adipocytes. The studies found that via a series of enzymatic mechanisms, mercury can contribute to insulin resistance and can therefore, be a factor in pathologies associated with glucose homeostasis.

Mori, K, et al. Effects of Perinatal Exposure to Low Doses of Cadmium or Methylmercury on Thyroid Hormone Metabolism in Metallothionein-Deficient Mouse Neonates. Toxicol. 228, 1, 2006.

Barnes, DM, et al. Effects of Mercuric Chloride on Glucose Transport in 3T3-L1 Adipocytes. Toxicol in Vitro. 19, 2 2005.

Comment: It is very common to find elevated mercury in patients diagnosed with hypothyroidism. HTMA studies usually reveal a Slow Metabolic mineral pattern in patients with high mercury exposure. It is well known that mercury can cross the placental barrier and accumulate in the fetus. This study shows that not only can mercury directly affect neurological tissues, but even low exposure to mercury can affect thyroid expression, which could in turn adversely affect neurological development. HTMA studies would indicate that mercury accumulation could lead to abnormal thyroid function in the adult, as well as affect blood sugar regulation.

About Us

InterClinical Laboratories is one of Australasia's leading companies in complementary medicines, practitioner nutritional products and health screening services.

InterClinical Laboratories has been the leading provider for hair tissue mineral analysis (HTMA) services in Australia and New Zealand for over 15 years.

Don't forget, you can call or email us for technical assistance on hair analysis testing or any of our products. Let us help you to build your practice!



InterClinical Laboratories

Leaders in Nutritional Pathology and Natural Medicines

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