



InterClinical  
Laboratories

# eNews

PRACTITIONER ONLY NEWSLETTER

July 2012, Issue 14

## InterClinical Laboratories eNews

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



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As we round up another successful year touring Australia for our seminar series, we are again overwhelmed by the enthusiasm and quality in our delegates! Thank you to everyone who came along.

This seminar was the topic we needed to review and update. Autoimmune conditions are presenting in every clinic and can be difficult to treat. Did you miss out? Fancy a winter break? There is still time to book in for Auckland, New Zealand! Come to the seminar, then maybe spend some free time visiting Rotorua or travel to the ski fields.

Click below for more information and to register for Auckland:

**[AUTOIMMUNE CONDITIONS IN CLINIC](#)  
**[Identifying and correcting nutritional imbalances to better treat and manage autoimmune conditions.](#)****

InterClinical seminars are always well-researched and clinically-relevant. See what recent delegates have said:

***Delegates from Perth...***

*"Wonderful seminar"*

*"Very approachable and positive therapists with excellent, well-informed information. Didn't feel like a hard sell."*

*"Thank you!"*



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### **Delegates from Sydney...**

"Thank you! Thoroughly enjoyed."

"I'll return in 2013!"

"Enjoyed the seminar. Friendly and very communicative making it very easy to understand."

"Thanks again for a superb conference."

Read on for clinical updates and make sure you don't miss out on this month's product specials!

**Warm regards, InterClinical Laboratories.**

## **Quick Links**

[Hair Tissue Analysis](#)

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## **Practitioner Clinical Updates**

### **Copper Deficiency and Hypertension**

A study by Kedzierska, et al. found that plasma copper concentration can significantly affect activity of the erythrocyte sodium transport system and that copper supplementation may have therapeutic benefits for hypertensive patients. Higher activity of Na/K ATP-ase, Na/Li and Na/H exchanger was seen in the erythrocyte membrane with low plasma copper.

*Copper Modifies the Activity of Sodium-Transporting Systems in Erythrocyte Membrane in Patients with Essential Hypertension. Kedzierska, K, et al. Biol. Trace Elem.Res. 107, 2005.*

**Comment:** In HTMA studies, we typically see copper deficiency in patients with hypertension. Most patients with hypertension do in fact show an elevated sodium and potassium tissue concentration along with a low tissue calcium and magnesium. The benefits of copper supplementation not only lies in the increase of copper-activated free radical scavenging enzymes such as superoxide dismutase (S.O.D.) and increase availability of nitrogen oxide, but in its calcium retention effects as well. An increase in tissue calcium would aid in the reduction of sodium retention and thereby reduce elevated blood pressure. It should also be noted that excess tissue copper can result in decreased zinc-activated S.O.D. activity and thereby, contributor to hypertension. This biphasic effect emphasises the need to assess individual need and treat the patient accordingly instead of merely treating symptoms.

## Need more information?

Need help interpreting your patient's hair tissue mineral analysis report? Do you require further information on any of our nutritional, herbal and natural medicines? If so, please don't hesitate in contacting us. We have qualified practitioners ready to take your call.

You can call us anytime Monday to Friday, 9am-5pm AEDT.

**Let us help you to build your practice with better clinical outcomes.**



**InterClinical Laboratories**

*Servicing Practitioners and Their Needs*

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