



Nutritional, Herbal and Natural Medicines | Practitioner Education

November 2015

Hair Tissue Mineral Analysis Pathology

Issue 53

Welcome to November eNews.

Firstly, we hope you enjoyed our webinar series this year. They have proved to be very popular and we had some very experienced practitioners present for us. To all who attended the final webinar of the year, Gary Moller's informative discussion on The Relationship Between Exposure to Epstein Barr Virus & Hair Tissue Mineral Analysis, thank you! Your feedback has been overwhelmingly positive, as well as throughout the year:

"Zac is very knowledgeable and enjoyed listening to him very much"

"Always take away good information from these webinars, thanks."

"Janine is wonderful to listen to!"

"Thank you Brad, for a great webinar!"

"Fantastic webinar, Gary's knowledge and experience is great."

"Very informative, Gary is a wealth of information and it was a very important topic."

If you missed any of the webinars you can purchase them for viewing on demand in the ad below. We can't wait to have you back for an exciting new series of webinars and lectures in 2016. Stay tuned for more information in the new year!

Quick Links

[Hair Tissue Analysis](#)

[Natural Health Products](#)

[Seminar Information](#)

Amyotrophic lateral sclerosis

This month's clinical study evaluates the accumulation of transition metals in the scalp hair of amyotrophic lateral sclerosis (ALS) patients in the Koza/Kozagawa/ Kushimoto (K) area (K-ALS) in the Kii Peninsula, Japan. Amyotrophic lateral sclerosis is a progressive degenerative disorder of the upper and lower motor neuron system. Although the cause of this disease remains unclear, multiple complex mechanisms have been suggested to be involved in its pathogenesis, including interactions between genetic and environmental factors, oxidative stress, and abnormal protein aggregation. Although the global incidence of ALS is uniform, it was found to be high in the Kii Peninsula of Japan. Scroll down for more information.

Yours in good health,

The Staff at InterClinical Laboratories

Clinical Update

Neutron Activation Analysis of Scalp Hair from ALS Patients

Mineral contents were measured in unpermed, undyed hair samples of 88 K-residents, 20 controls, 7 K-ALS patients, and 10 sporadic ALS patients using neutron activation analysis at the Research Reactor Institute, Kyoto University. The contents of zinc, manganese, and vanadium were higher, while that of sulphur was lower in K-ALS patients than in the controls. The content of manganese in K-ALS patients negatively correlated with clinical durations. The content of aluminium was significantly higher in K-residents than in the controls, with 15.9 % of K-residents having high manganese contents over the 75th percentile of the controls. The contents of zinc, manganese, and vanadium were high in the scalp hair of K-ALS patients and correlated with the content of aluminium. The accumulation of these transition metals may chronically increase metal-induced oxidative stress, which may, in turn, trigger the neuronal degeneration associated with K-ALS.

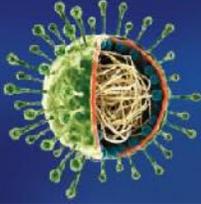
Kihira, T. et al. 2015. Neutron Activation Analysis of Scalp Hair from ALS Patients and Residents in the Kii Peninsula, Japan. Biological Trace Element Research. 164:36-42.

Purchase our past webinars to watch on demand

MONDAY 12 OCTOBER 2015
7:00PM

Practitioner Nutritional Medicine Webinars 2015
HAIR TISSUE MINERAL ANALYSIS

The Relationship Between Exposure to Epstein Barr Virus & Hair Tissue Mineral Analysis
A focus on EBV, the liver and copper.
Gary Moller



MONDAY 31 AUGUST 2015
7:00PM

Practitioner Nutritional Medicine Webinars 2015
HAIR TISSUE MINERAL ANALYSIS

The Nutritional Medicine Management & Detoxification of Lipophilic Heavy Metals
Dr Bradley McEwen PhD



AVAILABLE ON DEMAND UNTIL
MARCH 2015

Practitioner Nutritional Medicine Webinars 2015
HAIR TISSUE MINERAL ANALYSIS

Understanding metabolic typing:
Are you treating the tortoise or the hare?

PART ONE: the science of metabolic typing
PART TWO: fast vs slow – Implications for clinic

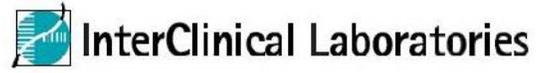


Need more information?

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 build your practice with better clinical outcomes.



Servicing Practitioners and Their Needs

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