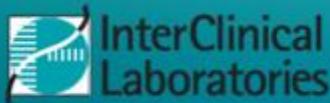


## PRACTITIONER ONLY NEWSLETTER

February 2016, Issue 56



# eNews

Nutritional, Herbal and Natural Medicines | Practitioner Education

February 2016

Hair Tissue Mineral Analysis Pathology

Issue 56

### *Is Chromium really a carcinogen?*

Welcome to the February eNews, we hope that you have settled in well for the year!

As you may be aware, there have been many alarmist news articles recently published in relation to the potential dangers of chromium supplementation and discussion of a link to cancer.

The articles have stemmed from a study led by Dr Lindsay Wu from the University of NSW's School of Medical Sciences and Professor Peter Lay from the University of Sydney's School of Chemistry called "Carcinogenic Chromium (IV) Compounds Formed by Intracellular Oxidation of Chromium (III) Dietary Supplement by Adipocytes." Please see below for more details on the study. The news articles have taken this study, and used it in a very disproportionate and alarmist way, with one newspaper comparing this to Erin Brokovich and noting that the "findings could leave Western countries on the verge of a new cancer epidemic."

In this eNews, we will discuss the study, the findings and provide a comment on the studies should you be approached on the subject and require a better understanding of it.

Wishing you good health, happiness and peace for this month,

The Staff at InterClinical Laboratories

#### Quick Links

[Hair Tissue Analysis](#)

[Natural Health Products](#)

[Seminar Information](#)



## Clinical Update

*"Carcinogenic Chromium (IV) Compounds Formed by Intracellular Oxidation of Chromium (III) Dietary Supplement by Adipocytes."*

This study explores the effects of Chromium (Cr III) on adipocytes. Single adipocytes of mice were treated with Cr III, and the results were analysed by X-Ray Absorption Nearedge Structure (XANES) and X-Ray Fluorescence Microscopy (XFM). This data showed that once the Cr III had oxidised, there were hot spots on the adipocytes that contained Cr IV and Cr V, which can be carcinogenic. The control group that were untreated did not have these hot spots when analysed.

### Comment:

It is important to note that this study was conducted on adipocytes *in vitro* only and does not show the effects of Cr III on a living organism (*in vivo*). This study was also completed on mice adipocytes and not on human adipocytes. It does not take into account the biological processes such as digestion, nutrient transportation and excretion that occurs in the human body. The form of Cr III used in this study was also Chromium Picolinate, and we wish to remind our clients that InterClinical Laboratories uses Chromium Chloride in the GT Formula.

*Dr. Lindsay. E. U et al. 2015. Carcinogenic Chromium (IV) Compounds Formed by Intracellular Oxidation of Chromium (III) Dietary Supplement by Adipocytes doi: 10.1002/anie.201509065*

## Purchase our 2015 webinars to watch on demand

The image displays three promotional banners for Practitioner Nutritional Medicine Webinars 2015, specifically focusing on Hair Tissue Mineral Analysis.

- Banner 1:** Monday 12 October 2015, 7:00PM. Title: "The Relationship Between Exposure to Epstein Barr Virus & Hair Tissue Mineral Analysis". Speaker: Gary Moller. Description: A focus on EBV, the liver and copper. Includes an illustration of a virus cell.
- Banner 2:** Monday 31 August 2015, 7:00PM. Title: "The Nutritional Medicine Management & Detoxification of Lipophilic Heavy Metals". Speaker: Dr Bradley McEwen PhD. Includes an illustration of three metallic spheres.
- Banner 3:** Available on demand until March 2015. Title: "Understanding metabolic typing: Are you treating the tortoise or the hare?". Subtitles: PART ONE: the science of metabolic typing; PART TWO: fast vs slow – implications for clinic. Includes an illustration of a rabbit and a turtle at a road sign labeled "SLOW" and "FAST".

### 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.



**InterClinical Laboratories**

Servicing Practitioners and Their Needs

+61 2 9693 2888 | [lab@interclinical.com.au](mailto:lab@interclinical.com.au) | [www.interclinical.com.au](http://www.interclinical.com.au)

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