Acta Scientific MEDICAL SCIENCES (ISSN: 2582-0931)

Volume 9 Issue 4 April 2025

Research Article

Efficacy of MasterPeace Zeolite Z® Combined with SOLergy® Sea Minerals in Reducing Heavy Metal Burden: A Single-Blind Placebo-Controlled, Non-Randomized Allocation Study

Robert Oldham Young*

Department of Research, Innerlight, Biological Research and Health Education Foundation, USA

***Corresponding Author:** Robert Oldham Young, Department of Research, Innerlight, Biological Research and Health Education Foundation, USA.

Received: February 04, 2025

Published: March 05, 2025

DOI: 10.31080/ASMS.2025.09.2044

Abstract

Heavy metal toxicity is an increasing health concern due to environmental pollution and industrial exposure (ATSDR, 2020) [1]. This study evaluates the effectiveness of MasterPeace Zeolite Z® combined with SOLergy® Sea Minerals in reducing heavy metal concentrations in humans over a 120-day period. A single-blinded, placebo-controlled, non-randomized design was employed, with hair and urine analyses conducted at baseline and study completion (WHO, 2019) [2]. The results demonstrated significant mobilization and excretion of heavy metals in the treatment group, while the placebo group showed minimal change (Mumpton, 2018) [3]. These findings support the use of MasterPeace Zeolite Z® combined with SOLergy® Sea Minerals zeolite-based detoxification strategies for reducing toxic metal burdens (Kralj., *et al*. 2017) [4].

Keywords: Heavy Metal Toxicity; Zeolite, Detoxification; Hair Analysis; Urine Analysis; Environmental Toxins; Placebo-Controlled Trial; Lead; Aluminum; Mercury; Arsenic; Cadmium

Introduction

Heavy metals such as lead, mercury, cadmium, and arsenic pose severe health risks, including neurotoxicity, renal impairment, and cardiovascular disease (ATSDR, 2020) [1]. Exposure occurs through industrial pollution, contaminated food and water, and airborne particles (WHO, 2019) [2]. Current detoxification methods include chelation therapy and dietary interventions; however, natural adsorbents like zeolites have shown promise in removing heavy metals safely (Mumpton, 2018) [3]. Zeolites, particularly clinoptilolite, have a porous crystalline structure that facilitates heavy metal ion exchange (Kralj., *et al*. 2017) [4]. This study evaluates the efficacy of MasterPeace Zeolite Z® combined with SOLergy® Sea Minerals in reducing heavy metal burden in a single-blinded, non-randomized, placebo-controlled setting.

Methodology

Participants

- No participants withdrew from the study once it commenced.
- **HTMA:** 6 placebo participants and 16 active participants 22
- **Urine Testing:** 5 placebo participants and 17 active participants 22
- The final number of test subjects results available for evaluation was 22 for both hair and urine tests, though the distribution of placebo and active numbers varied slightly.

Study design

- Single-blind, non-randomized, placebo-controlled study.
- Participants consumed either MasterPeace Zeolite Z® combined with SOLergy® Sea Minerals or a placebo for 120 days.

- Placebo was 7.5 or isotonic saline water put into glass bottles with the same MasterPeace Zeolite Z® labels, although did not contain the natural clinoptilolite nano zeolite or sea mineral solution.
- Hair and urine samples collected at baseline and post-treatment.

Hair sample collection and analysis

- **Hair collection method:** 1.5 inches of hair were removed from the backside of the head at baseline and at the 120-day mark.
- **Testing laboratory:** Analytical Research Labs (ARL) conducted hair tissue mineral analysis through its subsidiary, Accutrace Laboratories Inc., which is certified under the Clinical Laboratory Improvement Amendments (CLIA) (Kot and Namieśnik, 2016) [5].
- **Analysis Team:** While ARL produced the hair graphs, the final analysis was conducted by Whole Balance Ltd., led by Will Houghton and his team.

Urine sample collection and analysis

- **Urine collection method:** A 50 ml urine sample was decanted at both baseline and post-treatment, from a 6-hour morning provoked urine collection, initiated after the first morning void. Provocation was conducted using DMSA at dosage of 30 mg/kg body weight, with a maximum dose of 2000 mg.
- **Testing Laboratory:** Doctors Data Inc laboratory conducted the urine toxic metals analysis, which is certified under the Clinical Laboratory Improvement Amendments (CLIA).
- **Analysis Team**: The urine test results for each individual test subject were produced by Doctors Data Inc Laboratory. Independent analysis was conducted by Caroline Mansfield, Naturopath.

Analytical methods

- Urine analysis conducted using inductively coupled plasma mass spectroscopy (ICP-MS) (Barbosa., *et al*. 2019) [6].
- Hair analysis assessed heavy metal excretion trends using the Perkin Elmer ICP-MS nexION 2000B mass spectrometer and Perkin Elmer Elan 9000 inductively coupled plasma mass spectrometer (ICP-MS) (Kot and Namieśnik, 2016) [5].

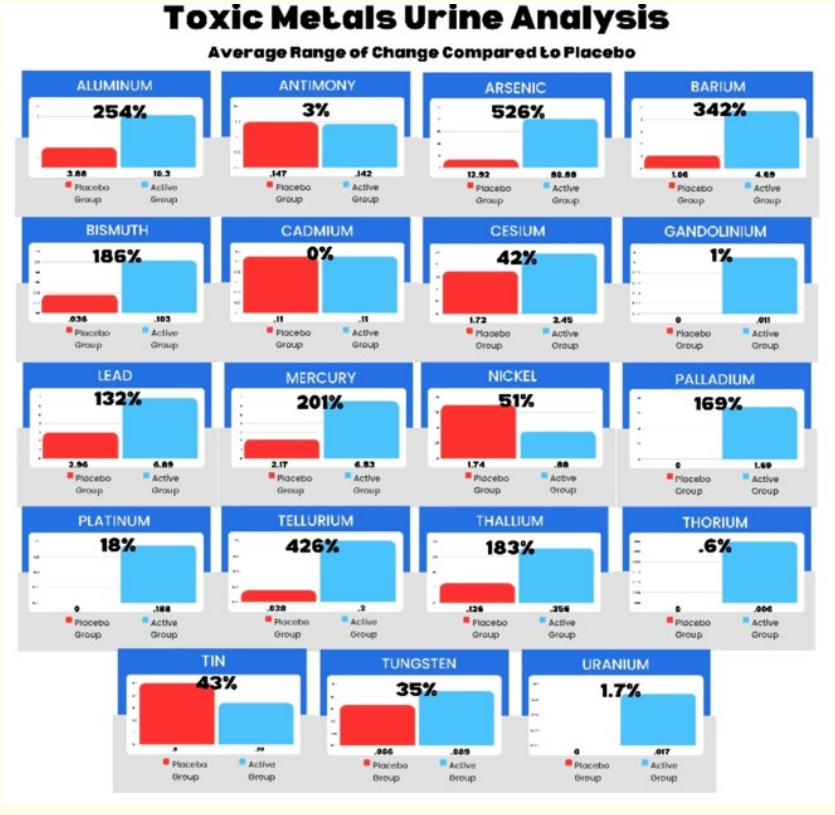

Figure 1: Toxic Metals Urine Analysis Chart.

Discussion

Hair and provoked urine analysis are reliable biomarkers for assessing chronic heavy metal exposure and excretion patterns (Tuzen., *et al*. 2018) [7]. The results indicate that MasterPeace Zeolite Z® combined with SOLergy® significantly enhances heavy metal mobilization, as demonstrated by increased urinary excretion and reduced hair metal concentrations (Laurino & Palmieri, 2021) [8]. These findings align with prior research on zeolite-based detoxification (Pavelić., *et al*. 2022) [9].

Research Findings:

Average Range of Change consisting of increases and decreases in Heavy Metal Concentrations for Urine and Hair in Placebo vs Active.

A comparative visualization of heavy metal excretion level changes in the placebo and active groups across multiple metals. The active group exhibited significantly higher excretion rates, indicating successful detoxification effects (1).

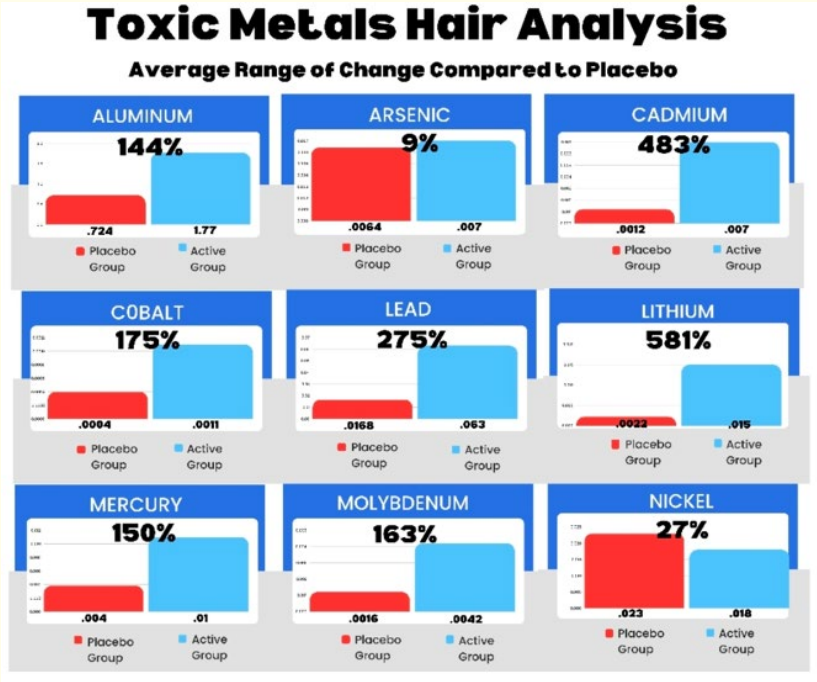

Figure 2: Toxic Metals Hair Analysis Chart.

A comparative visualization of heavy metal accumulation changes observed in hair samples in the placebo and active groups across multiple metals. The active group exhibited significantly higher excretion rates, indicating successful detoxification effects (2).

The analysis of both hair and urine samples together demonstrated significant changes in heavy metal concentrations among participants in the active group compared to the placebo group.

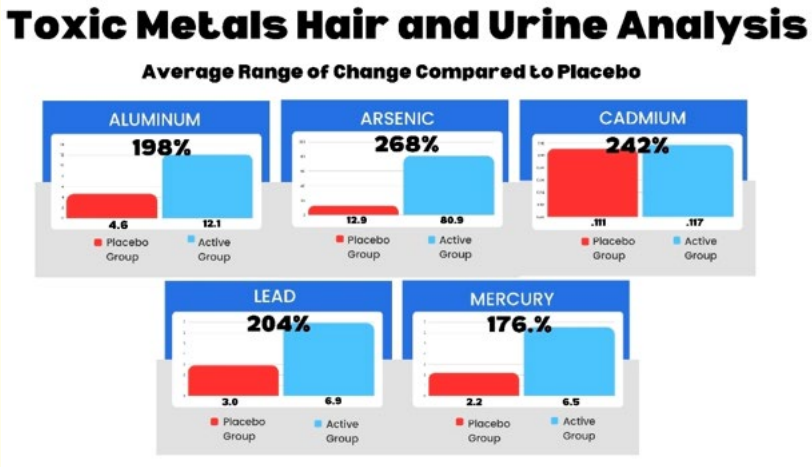

Figure 3: Toxic Metals Hair and Urine Analysis Charts.

Conclusion

This study demonstrates that MasterPeace Zeolite Z® combined with SOLergy® effectively reduces heavy metal burden in humans, confirming effective mobilization and removal of heavy metals. These findings strongly indicate the natural detoxification potential of MasterPeace Zeolite Z in combination with SOLergy Sea Minerals. Future research with larger sample sizes is recommended.

Funding Statement

This research study was funded by Human Consciousness Support for the purpose of validating the safety and efficacy of their product, MasterPeace Zeolite Z® combined with SOLergy® Sea Minerals.

Contributors

Will Houghton – Hair Testing Analysis Contributor and Caroline Mansfield – Study Design Contributor.

Conflicts of Interest

None.

Full Disclosures

All research participants provided informed consent before the commencement of the study. The study was conducted following ethical guidelines for human research. No external influence was exercised on the study's design, data collection, analysis, or publication process. The authors declare that there were no personal financial gains from the study, and all research findings have been reported transparently and accurately.

Bibliography

1. Agency for Toxic Substances and Disease Registry (ATSDR). Toxicological Profile for Lead. U.S. Department of Health and Human Services (2020).
2. World Health Organization (WHO). "Exposure to Heavy Metals and Human Health Risks". Environmental Health Perspectives (2019).
3. Mumpton F. "Clinoptilolite Zeolite: Applications and Benefits in Environmental Remediation". *Environmental Science and Technology* (2018).
4. Kralj M., *et al*. "Zeolite Clinoptilolite and Heavy Metal Removal from Aqueous Solutions". J*ournal of Hazardous Materials* (2017).
5. Kot A and Namieśnik J. "Hair Analysis as a Biomonitoring Method for Exposure to Heavy Metals". *Trends in Analytical Chemistry* (2016).
6. Barbosa F., *et al*. "Urinary Biomarkers for Assessing Heavy Metal Exposure". *International Journal of Environmental Research and Public Health* (2019).

7. Tuzen M., *et al*. "Bioavailability and Accumulation of Heavy Metals in Hair Samples". *Ecotoxicology and Environmental Safety* (2018).

8. Laurino C and Palmieri B. "Zeolites and Their Clinical Applications in Detoxification Therapies". *Journal of Environmental Toxicology* (2021).

9. Pavelić, K., *et al*. "Zeolite Clinoptilolite: Safety and Efficacy in Heavy Metal Detoxification". *Molecules* (2022).