

**AAMP Seattle – Advanced Topics in Immunology**

**October 9, 10 &11, 2020**

**18 AMA Cat-1 CE (6.5-Pharmacology and 2.25-Ethics) – 18 WA State Cat-1 CE**

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**FRIDAY**

**Morning Theme: How it works and how it gets derailed in chronic illness**

8:00 – 8:15     Jeremy Phillips Introductory Remarks and Welcome

8:15 – 9:15     Dr. Anderson    Immunology Updates “A to Z”

Immunology is a complex and ever evolving part of medicine. In this session Dr. Anderson will update the attendee regarding the latest in immunology mechanisms and science. Interactions between cell mediated and antibody immunity as well as complement will be discussed.

9:15 – 10:15    Dr. Anderson    Immune Disruptors beyond Mycotoxins

Mycotoxin immune disruption will be well described in this CME event so this session is geared to look at other mechanisms of immune disruption. Included in this session will be chemical and metal toxins, chronic infections and some common immune pathologies.

10:15 – 11:00   **Break**

11:00 - 11:45    Dr. Crista        Immune Suppressive Mechanism of Mold

Mold and mycotoxin exposure causes detrimental effects on the immune systems of living beings. The three aspects of immune suppression will be covered, including the cytotoxic effects on immune cells, epigenetic changes affecting immune responses, and direct genetic alterations affecting immune replication and expression.

11:45 – 12:45    Dr. Tessier       Mold & Mycotoxin Induced Endocrine Disruption

Endocrine disruption induced by mold and mycotoxin exposure is widely examined in the animal literature, and to some extent in the human literature. Exposure can result in alterations of the endocrine system including sex hormones, thyroid hormone, and adrenal hormones. Moreover, there is evidence for direct toxic effect to the organs that produce and mediate responses to said hormones. A succinct review of the literature will be provided, as well as clinical correlations.

12:45 – 1:15     Medical Presentation – Non-CME – Functional Genomics

1:15 – 2:30     **Lunch**

**Afternoon Theme: Assessment of Immune Disruption for Improved Clinical Outcomes**

2:30 – 3:30     Dr. Anderson    Clinical and Laboratory Assessment of Non-mycotoxin Immune Disruptors

In addition to mycotoxin effect on the human immune system mold exposure can have other wide-ranging effects which derail normal human immunity. In this session Dr. Anderson will lay out the effects in allergy-hypersensitivity reactions and other chemistry changes the clinician should be mindful of in assessing a mold case.

3:30 – 4:00 Medical Presentation – Non-CME – Microbiome Labs

4:00 – 4:45 **Break**

4:45 – 5:15 Dr. Anderson Immunomodulators Part-1: Therapies of Note

In this session Dr. Anderson will outline immunomodulatory strategies for the varied immunologic targets in mycotoxin illness and beyond. Natural and pharmacological strategies will be discussed. In Part-2 Dr. Anderson will discuss the prescribing and management of these agents.

5:15 – 5:45 Clinical Panel – Immune Disruption: Strategies for Clinicians

## SATURDAY

### Morning Theme: Mold / Mycotoxin Clinical Management

8:30 – 9:30 Dr. Crista Mycotoxin Assessment: The Good (and Not so Good...)

Since a large portion of symptoms from toxic mold exposure are due to mycotoxins, it's helpful to assess the exposure and/or load of mycotoxins in our patients. Even though laboratory assessments have evolved, there are definite limitations. These limitations, including the results of split sample testing among methods and laboratories, will be presented, as well as clinical guidance to minimize the limitations and know which method to choose for a given case.

9:30 – 10:00 Dr. Tessier Legal and Ethical Implications of Mold Related Diagnoses

It is true that there is no formal diagnosis code for CIRS? Can the diagnosis of mycotoxicosis really stand up in the court of law? Can certain ICD 10 codes place a client at legal risk? Can a SOAP assessment ruin the potential for future life insurance coverage? What is the best way to support a client when facing a legal battle? What about testing the home or workplace? Not understanding full scope of the case before ordering labs or suggesting actions can be problematic for numerous reasons. Do not miss this presentation!

10:00 – 10:30 Dr. Crista Mold Treatment Approach Part-1

The mechanisms of mold-related illness lend themselves to treatments utilizing naturopathic and functional approaches. Unlike a treatment protocol, the guidance of a therapeutic order of treatment allows for individualization to specific patient cases. A therapeutic order will be suggested and the aspects of each level covered. In Part 1, the concepts of avoidance will be discussed, including diet, supplements, and medications. Also fundamental realignments with lifestyle, and nutrient therapies will be described, as will the critical role of bile and binders.

10:30 – 11:15 **Break**

11:15 – 12:30 Dr. Crista Mold Treatment Approach Part-2

In Part 2, we continue through the therapeutic order with targeted botanicals to assist with detoxification and protection from mycotoxin intrusion and damage. Then a rationale for antifungal treatments will be presented, as will a selection of treatment combinations for both systemic and intranasal applications.

12:30 – 1:00 Medical Presentation – Non-CME – Bio-Botanical Research

1:00 – 2:15 **Lunch**

**Afternoon Theme: Mold / Mycotoxin Advanced Clinical Management**

2:15 – 3:15 Dr. Tessier Identity and Addressing Clinical Reactions in Mold Illness

What if a herx isn't really a herx? Other clinical reactions exist that are labeled as such, despite being their own separate issue. Examination of reactions, including their definitions, identification, and interventions will be discussed.

3:15 – 3:45 Dr. Tessier Mold & Mycotoxin Induced Fatigue

It is commonplace for mold illness cases to present with the key symptom of fatigue, but why? There are numerous ways in which mold and mycotoxin exposure can result in fatigue, and by understanding the why and how, one is better able to identify the mechanism at work and employ targeted treatment approaches.

3:45 – 4:15 Medical Presentation – Non-CME – Cellcore Biosciences

4:15 – 5:00 **Break**

5:00 – 5:30 Dr. Tessier Mold & Mycotoxin Illness in The Pediatric Population

Mold illness presents with many subjective complaints in the adult population, and therefore limitations in communication and self-awareness can cause difficulty in understanding the breadth of the pediatric case. Moreover, pediatric clinical presentation of mold illness may demonstrate recurrent URI, food intolerances, digestive upset, atopy and even PANS/PANDAS-like complaints among others. Misunderstanding the true etiology of these complaints can result in treatment failure or even exacerbation. A review of pediatric case presentation and assessment will be discussed, in addition to clinical pearls for enhanced treatment adherence.

5:30 – 6:00 Clinical Panel – Mold / Mycotoxin Clinical Management

**SUNDAY**

**Morning Theme: Mast Cell, CIRS and Inflammation**

8:30 - 10:00 Dr. Ackerley Neuropsychiatric effects of Mast Cell Activation, Related Conditions and NeuroQuant Imaging

Mast cell activation syndrome is a common immunological condition in which mast cells release chemical mediators inappropriately, resulting in a range of chronic inflammatory symptoms in multiple organ systems. Dr. Ackerley will explore the multiple psychiatric and neurological symptoms that can be associated with this condition.

10:00 – 10:30 Dr. Milani Chronic Inflammatory Response Syndrome (CIRS) Part-1

CIRS is an illness caused by exposure to toxins produced from a biological source, including from filamentous molds in water damaged buildings, tick-borne illness, cyanobacteria, dinoflagellates, *Pfisteria*, and Recluse spiders. In this lecture, Dr. Milani will describe the pathogenesis and immunological response to CIRS and review the methods used in lab diagnosis.

10:30 – 11:15 **Break**

11:15 – 12:00 Dr. Milani Chronic Inflammatory Response Syndrome (CIRS) Part-2

Dr. Milani will consider the treatment of CIRS, from assessing evidence, the therapeutic options and individualized protocols.

12:00 – 1:15 Dr. Anderson Immunomodulators Part-2: Prescription and Management

In this session Dr. Anderson will discuss the prescribing and management of the therapies discussed in Part-1.

1:15 – 2:15 **Lunch**

#### **Afternoon Theme: Advanced Immune Restoration Therapies**

2:15 – 3:30 Dr. Anderson Detoxification Therapies (Sauna, HBOT, Light, Liver/Kidney, Real Glutathione and Detox Nutrition, etc.)

“Detoxification” is a broad and at times misused term. In this session Dr. Anderson will discuss the process and phases of detoxification and depuration as well as the various means to support it. Internal / nutritional and external physical interventions will be discussed.

3:30 – 4:15 Dr. Anderson Pharmacology: Anti-Fungal, Parasitic, Biofilm and other Rx Therapies

The pharmacology of drugs involved in fungi, parasite and other infections can be less known and complex. Additionally, the effect of biofilms on the chronically infected person are a contributing factor. In this session Dr. Anderson will discuss the clinical application of these pharmacology factors and their use in the chronically ill person.

4:15 – 4:30 **Comfort Break**

4:30 – 5:00 Clinical Panel – Immune Dysregulation Clinical Concepts

5:00 **Adjourn**