

Advanced Applications in Medical Practice

17.5 AMA Category-1 CME Hours

Portland, Oregon - Friday through Sunday: October 27, 28 & 29, 2017

Theme: 21st Century Metabolic Medicine

Friday:

7:15 - 8:15 AM **BREAKFAST** - Organic, vegetarian and gluten free options

8:15 – 8:30 AM Jeremy Phillips Introductory comments and Opening

Morning Session: “Ground Zero” - Metabolomics as prime cause of inflammation and chronic illness

8:30 – 10:30 AM Dr. Anderson **“Genomic Influences on Metabolomics”**

Wasting no time “getting into it” Dr. Anderson will use the opening time period to set the stage and give clinical tips for the genomic basis of metabolic medicine. In this session he will outline the clinical presentations and SNP’s to watch in metabolic medicine. The potential epigenetically weak areas that can accentuate metabolically triggered diseases and treatment strategies to consider.

- Genomic areas that directly relate to metabolic illness
- SNP patterns which can epigenetically aggravate in metabolic disorders
- Nutrigenomic therapies for these patterns

10:30 – 11:00 AM **Morning Break**

11:00 AM – 12:30 AM Dr. Patrick **“Inflammation & Metabolism – Triggers & Therapy”**

Metabolic triggering of inflammation may be the “prime” cause (or at least one primary cause) of illness. Keeping in the theme of “21st Century Metabolic Medicine” Dr. Patrick will use this session to begin a discussion of some of the most common metabolic triggers of chronic illness.

- Insulin and Leptin resistance
- Fatty Liver disease
- Toxicant exposure and avoidance
- Ketogenic adaptation
- Polyphenol intervention

12:30 – 1:00 PM Bio Botanical Presentation (Non-CME)

1:00 - 2:15 PM **LUNCH** - Organic, vegetarian and gluten free options

Afternoon Session: Assessment and Therapies for Metabolically Triggered Chronic Illness”

2:15 – 4:00 PM Dr. Patrick **“How to Assess and Address Inflammation from a Whole Person Perspective”**

In this session Dr. Patrick will speak to addressing inflammation from a whole person perspective.

- Diet
- Meditation, Exercise, etc.
- Laboratory Assessment:
 - How they fit into the protocol
 - Insulin (fasting and postprandial)
 - Leptin
 - Adiponectin
 - CRP, HbA1c
 - Liver Functions, etc.

4:00 – 4:30 PM **Afternoon Break**

4:30 – 5:15 PM Dr. Cohen

Case discussion and review: In this clinical discussion Dr. Cohen will use his many decades of clinical experience to discuss case integration and process with the delegates. On the following two days he will be moderating case discussions and this Friday session will be the set up for that as well as general case integration thinking and process.

5:15 – 5:45 PM All Faculty Panel:

“Dealing with Metabolism as a Primary cause of Chronic Illness: Implementation into practice”

Saturday:

8:00 - 9:00 AM **BREAKFAST** - Organic, vegetarian and gluten free options

Morning Session: Metabolic Causes and Disease Promotion in Oncology – Scientific and Clinical Basis

9:00 – 9:30 AM Dr. Anderson **“My Evolution into Metabolic Oncology”**

Day-2 of this meeting will be packed with data and clinical detail regarding metabolomics and cancer. The evolution Dr. Anderson experienced in transitioning from a more conservative integrative oncology focus to a more aggressive and broad based therapeutic process will be key to understanding today’s content. In this short introduction Dr. Anderson will quickly recount the trip from very basic oncology to broad based inclusive integrative oncology including metabolic therapies.

9:30 - 10:30 AM Dr. D’Agostino **“Metabolism and Cancer – Where the Weak Links Are”**

In this session Dr. D’Agostino will discuss the research basis for metabolic approaches to cancer. This session will be foundational to understanding the therapeutic interventions both he and Dr. Anderson will discuss.

- Metabolic effects on the cancer milieu
- Metabolism and the active cancer cell
- Metabolic effects on cancer stem cells

10:30 – 11:00 AM **Morning Break**

11:00 – 12:00 PM Dr. D’Agostino “**Dietary Manipulation of Metabolism in Cancer**”

Following his morning introductory session Dr. D’Agostino will outline the metabolic basis for the use of dietary manipulation specifically in cancer therapy.

- Macronutrients and cancer cells
- Exogenous ketones
- Scientific basis for specific dietary therapy

12:00 – 12:30 PM Dr. Anderson “**Diet, Metabolism and Cancer Patients**”

As a follow up to the morning session Dr. Anderson will outline his approach to diet in the care of cancer patients.

- Preventive strategies
- Therapeutic diets
- Periodic fasting
- Special circumstances

12:30 – 1:00 Master Supplements Presentation (Non-CME)

1:00 – 2:15 PM **LUNCH** - Organic, vegetarian and gluten free options

Afternoon Session: Therapeutic Synergy in Oncology – How to Make it Effective

2:15 – 3:00 PM Dr. D’Agostino “**Therapeutic Synergy in Research Models**”

In this session Dr. D’Agostino will share his research into the synergy of metabolic therapies in cancer.

- Diet
- Hyperbaric Oxygen
- Exogenous Ketones
- Other agents

3:00 – 4:00 PM Dr. Anderson “**Taking Research Synergy to the Clinic**”

In this session Dr. Anderson will describe how the research directions he and Dr. D’Agostino had “crossed over” and how he developed a multi-modality approach to advanced cancers. He will share a case series using the approach as well.

- Hematologic “salvage” case series
- Use of diet as prime intervention
- Novel metabolic protocol for synergy, safety and higher dosing (IV and Oral)
- Hyperbaric Oxygen with metabolic therapies
- Hyperbaric Oxygen with oxidative therapies
- Exogenous Ketones
- More!

4:00 – 4:30 PM **Afternoon Break**

4:30 – 5:00 PM Dr. Cohen Dr. Anderson

Case discussion and review: In this clinical discussion Dr. Cohen will use his many decades of clinical experience to work a case discussion between Dr. Anderson and the Delegates to support the oncology theme.

5:00 – 5:30 Precision Analytical Presentation (Non-CME)

5:30 – 6:00 PM All Faculty Panel:

“Can Metabolic Treatment of the Cancer Patient be Implemented and what are the Pitfalls and Practicalities?”

Sunday:

8:00 – 9:00 AM **BREAKFAST** - Organic, vegetarian and gluten free options

Morning Session: Metabolomics and Neurological Inflammation – From Bench to Bedside

9:00 – 10:00 AM Dr. D’Agostino **“Research Basis for Metabolic Triggering in Neurological Inflammation”**

In this session Dr. D’Agostino will outline the data supporting metabolic triggers for neurological inflammation and what targets may be used to guide therapies.

10:00 – 10:30 Dr. Anderson **“Metabolic Therapies and the Neurological Patient – Part One”**

This three part discussion of neurological therapeutics will cover common conditions including Multiple Sclerosis, Parkinson’s disease, Dementia, Neuropathies, Neurological Inflammation secondary to other illnesses (Lyme, Radiation etc.) and others. This session will focus on:

- Basis of brain inflammation
- Role of a leaky blood-brain barrier
- Primary therapeutic targets

10:30 – 11:00 AM **Morning Break**

11:00 – 12:30 PM Dr. Anderson **“Metabolic Therapies and the Neurological Patient – Part Two”**

This three part discussion of neurological therapeutics will cover common conditions including Multiple Sclerosis, Parkinson’s disease, Dementia, Neuropathies, Neurological Inflammation secondary to other illnesses (Lyme, Radiation etc.) and others. This session will focus on:

- Primary oral therapies for neurological inflammatory disorders
- Primary IV therapies for neurological inflammatory disorders
- Hyperbaric Oxygen use in the neurological patient – dosing and troubleshooting

12:30 – 1:00 PM Dr. Cohen Dr. Anderson

Case discussion and review: In this clinical discussion Dr. Cohen will use his many decades of clinical experience to work a case discussion between Dr. Anderson and the Delegates in support of neurological cases.

1:00 – 2:15 **LUNCH** – Organic, vegetarian and gluten free options

Afternoon Session: Clinical Synthesis and Take Home

2:15 – 3:30 PM Dr. Anderson **“Metabolic Therapies and the Neurological Patient – Part Three”**

This three part discussion of neurological therapeutics will cover common conditions including Multiple Sclerosis, Parkinson’s disease, Dementia, Neuropathies, Neurological Inflammation secondary to other illnesses (Lyme, Radiation etc.) and others. This session will focus on:

- Dietary Interventions
- How to sequence therapies for synergy (Oral / IV / Diet / HBOT etc.)
- Time tested clinical tips

3:30 – 4:00 PM All Faculty Panel

“Take Home Points for Clinical Implementation of Metabolic Medicine”

4:00 PM Adjourn