

22nd Annual World Congress on Anti-Aging, Regenerative & Aesthetic Medicine



ESTABLISHED 1992, A4M REPRESENTS 26,000
PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Spring 2014

Anti-Aging MEDICAL NEWS

THE GLOBAL RESOURCE FOR ANTI-AGING



It's Not Age Management...
It's Lifestyle Management

1.888.997.0112 • www.A4M.com • THE FUTURE OF MEDICINE TODAY

BIO-IDENTICAL HORMONE REPLACEMENT SYMPOSIUM



Bio-identical Hormone Society

Jointly
Sponsored by



SYMPOSIUM

SEPTEMBER 10-13, 2014 • PHOENIX, ARIZONA

This course includes a hard copy
and electronic version of a

400+ PAGE SYLLABUS

of scientific medical evidence
for reference



**THIERRY
HERTOGHE, MD**
Hormone Therapies Expert



**RON
ROTHENBERG, MD**
Anti-Aging Specialist



**PAMELA
SMITH, MD**
A4M Fellowship Director



**JONATHAN V.
WRIGHT, MD**
Founder of BHRT



**JENNIFER
LANDA, MD**
BHRT Gynecologist

EARLY BIRD SPECIAL

\$799
until August 10, 2014*

Add a **STAFF MEMBER**
for **\$695**
ONLY

*After 8/10/2014, registration is \$999. \$1,299 on-site.
A \$100 non-refundable processing fee
applies to all cancellations.



Sheraton
HOTELS & RESORTS

**Sheraton Phoenix
Downtown**

340 North 3rd Street,
Phoenix, AZ 85004

\$179/night inc. Internet

Reserve Rooms by 8.13.2014

For Hotel Reservations

Call (866) 837-4213



Call 1-888-997-0112 or Visit www.a4m.com for more information



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Dear Distinguished Colleagues,

The American Academy of Anti-Aging Medicine (A4M) welcomes you to Orlando for the Spring 2014 session of the 22nd Annual World Congress on Anti-Aging, Regenerative & Aesthetic Medicine, certification programs, workshops, and A4M Fellowships.

The A4M is proud that our 26,000 physicians, practitioners, and scientific members from 120 nations worldwide have made a lasting and palpable commitment that expands the availability of advanced biotechnologies and leading-edge preventive healthcare throughout the world. Now in its third decade of educational service, the A4M's scientific educational programs have trained over 100,000 medical professionals worldwide.

As pioneers in Integrative Medicine, our conferences offer a wide educational exposure to doctors not only locally and regionally, but also internationally. Integrative Medicine is transforming healthcare, one practice at a time as a way for patients to adopt a healthy lifestyle based on scientific and academic research in preventive medicine.

The opportunities in the Integrative Medicine market are vast, with the global market estimated to be worth \$292 billion by 2015. Furthermore, the proportion of the world's population aged 60 or over currently stands at 10%, but this figure is expected to more than double to 22% by 2050. Ninety million adult Americans currently use Alternative Medicine.

It is an exciting time to be involved in Integrative & Preventive Medicine. With your involvement, this medical specialty continues to expand and become more widely accessible. By attending this event, you are part of this transformation, and we applaud you for joining this fast-growing movement.

With warm regards,



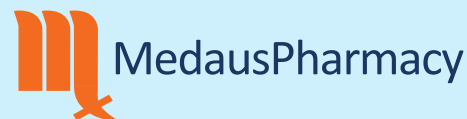
Ronald Klatz, MD, DO
President, A4M



Robert Goldman, MD, PhD, DO, FAASP
Chairman, A4M

MEDICAL CONFERENCES INTERNATIONAL, INC. WISHES TO ACKNOWLEDGE
THE SUPPORT OF THE FOLLOWING SHOW SPONSORS:

PLATINUM ELITE SPONSORS



GOLD SPONSORS



SILVER SPONSORS





THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Table of Contents

● General Information	6
● Conference Bonuses	8
● Pre-Conference Workshops	10
● Sponsored Evening Workshops.	12
● Product Theater Schedule	18
● Telomere Measurements in Clinical Medicine – How, What, When, and Why! <i>Dave Woynarowski, MD</i>	22
● Detoxify For Life <i>John Cline, MD, BSC, CCFP</i>	28
● Prescription Fish Oils: Are They Better Options than Dietary Supplements? <i>Thomas Williams, PhD</i>	32
● From BHRT to Skin Care: What the Wellness Physician Needs to Know About Anti-Aging Cosmeceuticals <i>Rick Rhoads, Pharm.D</i>	36
● Sex Steroid Measurements in Different Body Fluids Following Topical Hormone Delivery <i>David Zava, PhD</i>	40
● A4M Education Highlights	45
● Exhibitors Directory	58
● Product Announcements	45
● Exhibit Floorplan	62
● Exhibitor Index	63
● Exhibitor Listings	67
● Advertising Index	109



Aging Medicine (A4M.) All rights reserved. ISSN 1533-6700. Anti-Aging Medical News publishes materials in good faith and makes no claims or endorsements for products, services or procedures that appear in the publication. Opinions expressed in articles and advertisements are not necessarily those of Anti-Aging Medical News, its owners, affiliates, or its staff. The publisher is not liable for advertiser product claims or representations. Advertisers assume total responsibility for the contents of their advertisements. Under no circumstances is the content of Anti-Aging Medical News to be construed as medical advice. Always consult your personal physician prior to beginning a new therapy, or changing any current regimen.

PHOTO RELEASE: Anyone in attendance at any A4M event may be subject to any photography or videography conducted during the event which may be used in any form for future media purposes. Any concerns, please contact A4M.

PERMISSIONS TO REPRINT: On organization letterhead, supply the name of the article appearing in Anti-Aging Medical News, the issue of Anti-Aging Medical News, describe your usage (total readership [print run and/or other media], number of reprint instances), and indicate a contact name with telephone, facsimile, and e-mail at your organization. Send your request to: Reprint and Rights Department, Anti-Aging Medical News,

1801 N. Military Trail, Suite 200, Boca Raton, FL 33431 USA. Facsimile: (561)-997-0287. Anti-Aging Medical News cannot grant permissions for any materials reprinted from other sources (as is clearly indicated in these articles by inclusion of a source line).

VISIT US ON THE WEB: www.a4m.com
Executive, Editorial, Circulation, and Advertising Offices
Anti-Aging Medical News
Telephone: (561) 997-0112



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

General Information

BADGES:

The official registration badge should be prominently displayed at all times for admission into the meeting rooms and Exhibit Hall, during show hours and official events.

SHOW REGULATIONS:

1. An official picture ID is required to pick up name badge.
2. Name badge must be worn at all times during show hours and official events.
3. No one under the age of 18 will be admitted into the Exhibit Hall.
4. This event is open to healthcare professionals and their invited guests only.
5. Photography is permitted in the Exhibit Hall only by press, with the prior permission of show management, and prior permission from the firm(s) whose booth(s) are being photographed. Videography in the Exhibit Hall (motion video, film, or digital) is permitted only at discretion and with advance permission of show management and the prior permission of individual(s) and/or firm being photographed.
6. Audio-recording (tape or digital) of this event is expressly prohibited.
7. Unauthorized solicitation is prohibited. Solicitation of business on the event premises by anyone other than official exhibitors is strictly forbidden. Solicitation of business in, and in the immediate proximity of the event is extremely prohibited. In addition, non-A4M and/or commercial literature of any kind may not be distributed near or at the event registration area and all event-related general public areas.
8. No medical procedures are permitted to take place in Exhibit Hall booths without prior permission of show management.
9. Smoking is prohibited on the exhibit floor and in all meeting rooms.
10. Show management reserves the right to expel any individual and/or company without recourse or refund at its sole discretion.
11. **PHOTO RELEASE:** Anyone in attendance at any A4M event may be subject to any photography or videography conducted during the event which may be used in any form for future media purposes. Please contact A4M with any concerns.

Accelerating the Diagnosis and Treatment of IBS



Learn first-hand at our Friday workshop!

- Apply non-invasive, select stool-based biomarkers to assess imbalances and/or triggers that precipitate IBS
- Differentiate between IBS and IBD
- Identify and apply simple effective tools for the treatment of root causes

Join Andrea Girman, MD, MPH, to learn more
about IBS and Specialty Diagnostics
at our informative workshop:
Friday, May 16th, 6:45pm



Andrea Girman, MD, MPH
Director of
Medical Education
Genova Diagnostics

*Visit us at Booth #317
for more information!*

GENOVA
DIAGNOSTICS[®]

ASHEVILLE • ATLANTA • LONDON

63 Zillicoa Street • Asheville NC 28801

800.552.4762 • www.gdx.net





THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Conference Bonuses

- **The A4M Conference App** (for smart-phones)

Keep the event in the palm of your hand! Utilize A4M's integrative conference app to help boost your experience and navigate your conference time wisely. Search your Apple or Android app store, or find the link on www.A4M.com.

- **Pre-Conference Specialty Workshops**

Thursday, May 15th

Register for topic focused workshops lead by industry leading experts in Obesity, Hair Loss Management, Stem Cells, Practice Management and Lifestyle Medicine.

- **Sponsored Evening Workshops**

Thursday, May 15th • Friday, May 16th

Attend free evening workshops sponsored by participating exhibitors featuring highlighted speakers discussing the latest advancements in Anti-Aging and Regenerative Medicine. (Non-CME)

- **Exhibit Hall**

Friday, May 16th 10:00am – 6:45pm • Saturday, May 17th 10:00am – 6:00pm

- **Product Theater**

Friday, May 16th 12:00pm – 2:00pm; 4:30 – 5:30pm • Saturday, May 17th 11:30am – 12:00pm

Visit the Product Theater stage inside the exhibit hall where participating exhibiting companies will showcase their products & services. (Non-CME)

- **Networking Reception**

Friday, May 16th 4:30pm – 6:45pm

Mix and mingle with other distinguished medical professionals and exhibitors while enjoying refreshments in the exhibit hall.

- **Rolex Giveaway**

Play the exhibit hall game and enter to win a **FREE Rolex! Drawing will take place Saturday, May 17th at noon.**

- **A4M Bookstore**

Come browse our extensive selection of educational literature featuring current research and technological advances; visit with an A4M Educational Advisor to discuss the literature as well as educational opportunities available.

Your new life starts from within.

Have you had your hemp CBD today?



Award-Winning
Hemp Oils



Skin / Hair
Care



Nutritional
Supplements



Hemp CBD
Drops

The World's Largest Distributor of CBD-Rich Hemp Oil Products
Available in All 50 States

HempMedsPX.com 866.273.8502





THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Enhance Your Conference Experience with a Pre-Conference Specialty Workshop

Thursday, May 15, 2014



Obesity: How to Definitely Lose Weight with Efficient Dietary, Nutritional and Hormone Therapies

Presented by Thierry Hertoghe, MD

Obesity is a fast-growing epidemic, sweeping the globe, affecting children and adults all over the world. Topics to include the endocrine system, diet management, hormone deficiencies/excesses that produce excessive appetite, obesity case studies, and more.



Stem Cells in Anti-Aging Medicine: An Update

Presented by Sharon McQuillan, MD & Expert Faculty

Learn how to successfully incorporate and market stem cell treatments into your practice. The latest in stem cell theory and clinical trial research for all aspects of Regenerative Medicine, including embryonic, bone marrow-derived, adipose-derived, and platelet rich plasma will be covered. Attendees will leave the clinical training course with the skill and knowledge to treat patients immediately upon returning to their offices.



Personalized Lifestyle Medicine

Presented by Jennifer Landa, MD; James LaValle, RPh, CCN; Filomena Trindade, MD; Denis Wilson, MD

Personalized medicine stands poised to transform over the next several decades and also offers the possibility of improved health outcomes and has the potential to make healthcare more cost-effective. This workshop will include patient case studies, information on hormones, cardiovascular health and more. The workshop will demonstrate practical applications and how physicians can implement into their own practice.



Medical Management of Hair Loss for the Integrative Medicine Practice

Presented by Alan Bauman, MD & Expert Faculty

By age 50, nearly half of all men and women will experience some degree of hair thinning. Learn what you can do to start successfully treating your patients today! Workshop attendees will learn to consult and evaluate, measure and diagnose, identify risk factors, recommend and prescribe results-oriented protocols, and to treat, track & follow-up.



Practice Management Certification (part 2)

Presented by Expert Faculty

Get your practice up to speed in this ever-changing industry of healthcare! This workshop is part of the two-part practice management certification and will focus on financial management, human resource management, organizational governance, risk management and marketing/communication.

BioRenew[®]

SKINCARE

Visit UCP Booth
for Special Offer

Professional Skin Care Products Designed
to Work with the Natural Biology of Your Skin.

Stabilized Vitamin C

Derma-Peptides • Niacinamide

Caffeine • Micro-Algae • Licorice Root

Hyaluronic Acid • Retinol

Natural Extracts



To order, Call Amy at 855-238-9500 or visit the UCP booth

Clinically Validated Concentrations | pH Balanced and Stabilized | With Dermahance TECHNOLOGY for Superior Results

www.biorennewskincare.com



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Sponsored Evening Workshops

Thursday, May 15th

- 6:15^{PM}** **Topic:** How to Effectively Combine Different Modalities of Lab Testing
Presented by: James LaValle, RPh, CCN
Location: Sun Ballroom Level
Sponsored by: AML Diagnostics



- 6:15^{PM}** **Topic:** The Future of Functional Medicine with OMAPREM® & PreBioPhage™ the Probiotic/ Bacteriophage Combination
Presented by: Sharon McQuillan, MD
Location: Sun Ballroom Level
Sponsored by: OMAPREM



Friday, May 16th

- 6:45^{PM}** **Topic:** In-Office Stem Cell Therapy: The Next Step in Anti-Aging Medicine
Presented by: Sharon McQuillan, MD
Location: Sun Ballroom Level
Sponsored by: Ageless Regenerative Institute
- 6:45^{PM}** **Topic:** JOIN Workshop: Share the knowledge. Experience the difference. Achieve more. Listen and learn from physicians who have successfully transitioned into bioidentical hormone therapy.
Presented by: Jennifer Landa, MD
Location: Sun Ballroom Level
Sponsored by: BodyLogicMD



- 6:45^{PM}** **Topic:** Accelerating the Diagnosis and Treatment of IBS
Presented by: Andrea Girman, MD, MPH
Location: Sun Ballroom Level
Sponsored by: Genova Diagnostics

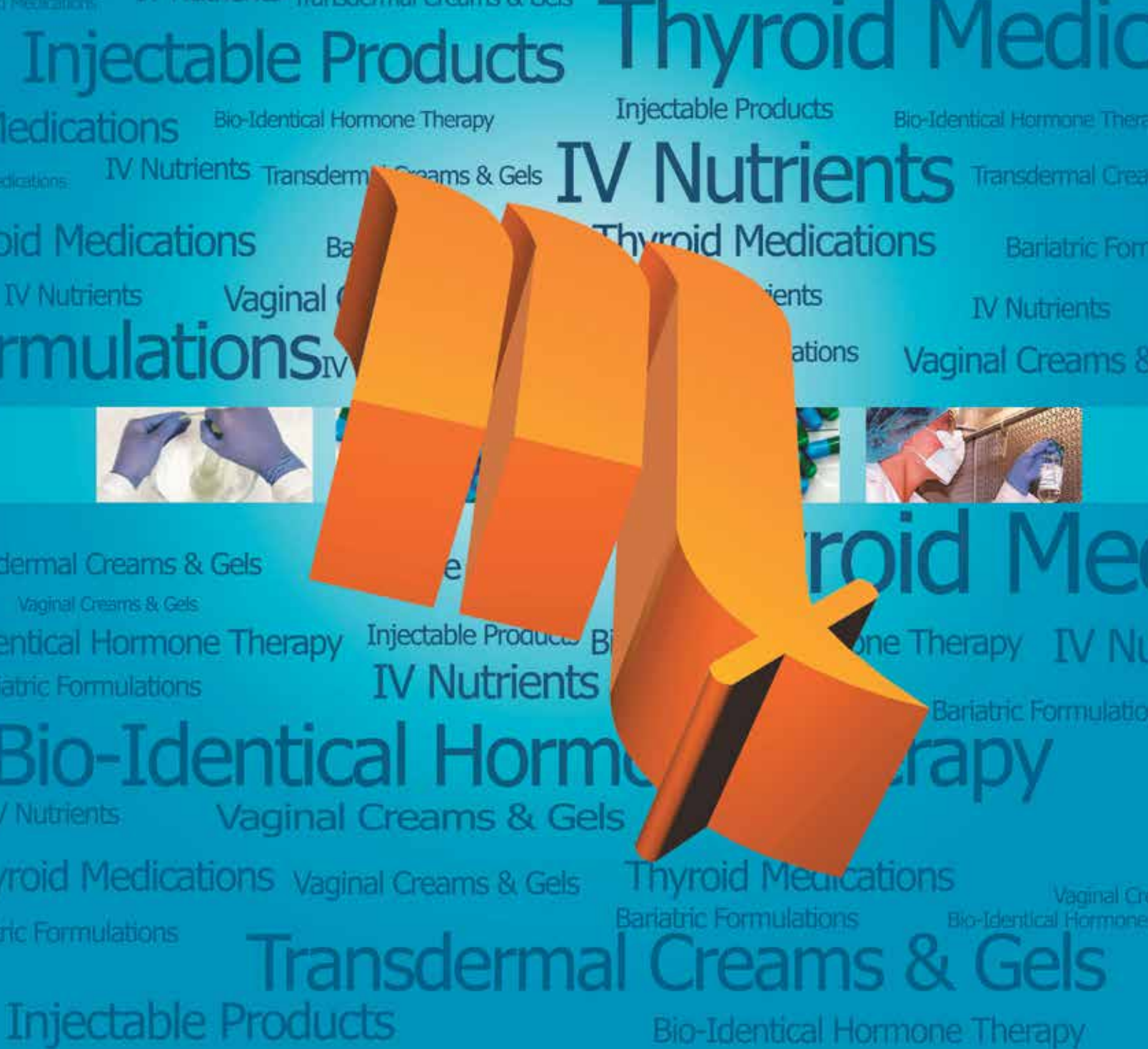


- 6:45^{PM}** **Topic:** Everything You Wanted to Know About CBD, But Were Afraid To Ask
Presented by: John Hicks III, MD
Location: Sun Ballroom Level
Sponsored by: HempMedsPx



- 6:45^{PM}** **Topic:** The Next Generation of Scar Therapy and Patient Cases
Presented by: Sara Hover, RPh
Location: Sun Ballroom Level
Sponsored by: PCCA





MedausPharmacy

Absolute Service. Absolute Professionalism. Absolute Value.

Contact Us: (800) 526-9183 | (205) 981-2352





THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Join Us! *Networking* *Reception*

Location:
Exhibit Hall

Date: Friday, May 16th
Time: 4:30 pm – 6:45 pm

Mix & Mingle with other distinguished medical professionals and exhibitors while learning about the latest products and services available in the Anti-Aging industry.

Helping Clinicians Achieve
Better Patient Outcomes



**SpectraCell
Laboratories, Inc.**
has become the nation's
leader in advanced
clinical testing by utilizing
the most advanced
technology, providing
the **highest quality
service to our physician
clients nationwide**, and
understanding the ultimate
responsibility is patient
care.

Call Today!
800.227.LABS (5227)
or visit us at
www.SpectraCell.com

NUTRITIONAL

SpectraCell's MICRONUTRIENT TESTING

offers a unique means to scientifically assess the intracellular requirements of micronutrients that play an important role in the overall health and wellness of your patients.



CARDIOVASCULAR

LPP+™

(Lipoprotein Particle Profile™)

Advanced technology which accurately measures both the density and number of lipoprotein particles. Measuring the lipoprotein subgroups is crucial for an accurate assessment of cardiovascular risk – according to the National Cholesterol Education Program (NCEP).



SPECIALTY

Telomere Testing APO E Genotyping MTHFR Genotyping

Genetics play a major role in determining our health risks and treatment protocols. Genetic markers are key to creating truly personalized healthcare plans.



 **SpectraCell Laboratories**
Science + Health + Solutions

ROLEX GIVEAWAY



ESTABLISHED 1992, A4M REPRESENTS 26,000
PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

CELEBRATING 22 YEARS
OF INNOVATION IN ANTI-AGING, REGENERATIVE & AESTHETIC MEDICINE

GRAND PRIZE
Rolex Watch

2nd PRIZE
Diamond Earrings

3rd PRIZE
\$1000.⁰⁰
CASH

How to Enter:

1. Visit The Booths Of Each Rolex Sponsor

The sponsors and their booth numbers are shown on the entry form. Just ask each sponsor to individually stamp your entry form in their logo circle, complete your contact details and deposit your entry card at the Rolex Booth # 513.

2. You Must Be A Registered Conference Delegate

to the 22nd Annual World Congress on Anti-Aging, Regenerative & Aesthetic Medicine. Exhibitors, sponsors and their staff are not eligible to win. YOU MUST BE PRESENT TO WIN.

3. The Rolex Giveaway Will Be Held On

Saturday, May 17th at 12:00pm in the Exhibit Hall.

4. A W-9 Tax Form Must Be Filled Out

prior to prize collection.

DRAWING
EXHIBIT HALL
MAY 17th 12:00PM



Booth #117



Booth #119



Booth #123



Booth #129



Booth #134



Booth #202



Booth #231



Booth #317



Booth #331



Booth #335



Booth #434



Booth #435



Booth #501



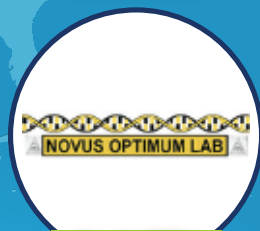
Booth #507



Booth #628



Booth #723



Booth #724



Booth #728



Booth #801



Booth #806



Booth #811



Booth #913



Booth #922



Booth #929



Booth #1023

Deposit The Completed Entry Form At The Rolex Booth #513

FOR A CHANCE TO WIN THE EXCLUSIVE

ROLEX WATCH

The last entry will be accepted at 11:30am, 05/17/2014. Drawing takes place at 12:00pm

PRESENTED BY THE A4M - YOU MUST BE PRESENT TO WIN!

Rules Of Draw - Open To Registered Conference Delegates Only

1] The giveaway is not open to any exhibitors or sponsors, suppliers or supplier affiliates to the 22nd Annual World Congress on Anti-Aging, Regenerative & Aesthetic Medicine. 2] Only one entry per person will be accepted. 3] This entry form must be completed fully and correctly, validated by each of the sponsors and their unique stamps in the circle above, signed and including the unique badge ID from your registration badge for verification purposes. 4] You must be present at the time of the giveaway to win. 5] The prize is not transferable or redeemable for cash. 6] The actual Rolex on display is the Rolex that will be won. 7] Impact duties, federal, state, and local taxes are the responsibility of the winner. 8] A W-9 tax form must be completed prior to prize collection. 9] The actual Rolex on display may differ from photograph.



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

A4M's Product Theater

Elite companies in the fields of Anti-Aging, Regenerative & Aesthetic Medicine will showcase their ground-breaking products or business services via a live demonstration or presentation.

Friday, May 16th

12:00 pm **Topic:** What's the Buzz about CBD?

Sponsored by: HempMedsPx



12:30 pm **Topic:** Your Practice CASH Magnet

Presented by: Michael Renzulli, ND

Sponsored by: Innovate Aesthetics/Lipo Light Pro



1:00 pm **Topic:** Improving Outcomes with PCCA's Special Micronized Progesterone in Versabase Cream

Presented by: Sara Hover, RPh

Sponsored by: PCCA



1:30 pm **Topic:** Integrative Lab Solutions

Presented by: Peggy Watson, MD

Sponsored by: SpectraCell Laboratories



4:30 pm **Topic:** IBS and Specialty Diagnostics

Presented by: Andrea Girman, MD, MPH

Sponsored by: Genova Diagnostics



5:00 pm **Topic:** Aminos and You: Balancing Amino Acids for Better Health

Presented by: Frank Young, Jr.

Sponsored by: Young-Vitality Co.



Saturday, May 17th

11:30 am **Topic:** Combating Age-Related Conditions with Medical Weight Loss, Bio-Identical Hormone therapy and Men's Health

Presented by: Kimball Lundahl, DC, ND

Sponsored by: Healthy Habits Medical Business Consultants



Maturity is the glory of years.

– Martha Graham

You can't stop aging. But
you can help patients slow
the aging process.

Do this naturally by
managing their hormones.

Hormone balance holds
the key to optimal aging.
It's also the secret to
maintaining more youthful
skin, weight, energy and
libido into maturity.

Take the first step
by testing patients for
hormone imbalance.



1.877.647.0324 | zrtlab.com

ZRT Laboratory has been innovating
hormone testing since 1998. Trust the
experts who have tested over 2 million
people.



Telomere Measurements in Clinical Medicine- How, What, When, and Why!

By Dave Woynarowski, MD

Why has telomere measurement become so important?

The medical and public consciousness about the importance of telomeres and telomere length has exploded as the result of the 2009 Nobel Prize Award for the discovery of telomerase, the enzyme that elongates telomeres, slowing the aging process. Since then, both clinicians and the lay public have been inundated with studies correlating telomere length to diet, supplements, sleep, stress and all manner of lifestyle habits. This is on top of an even larger data base of more than 17,000 scientific publications correlating telomere length with diseases we commonly associated with aging such as cancer, heart disease (both vascular and myopathic), Alzheimer's, arthritis (both degenerative and autoimmune) diabetes, infertility and many other age-related diseases.

As a result of the known loss of telomere length from the ends of the chromosomes with each cell division and the initial suggestion that this loss was limiting to the life span of the cell (the Hayflick Limit) the concept that telomere loss may actually cause aging arose.

The current understanding is that telomere loss will eventually limit the lifespan of cells tissues and organisms and is correlated with the aging process because it correlates well with the organism's ability to produce new healthy cells to replace sick dead or dying cells. As the organism ages and the telomeres shorten the regenerative and repair capacity is limited by the numbers of cells that have long enough telomeres to function in healthy fashion and reproduce healthy offspring in whatever tissue is being studied.

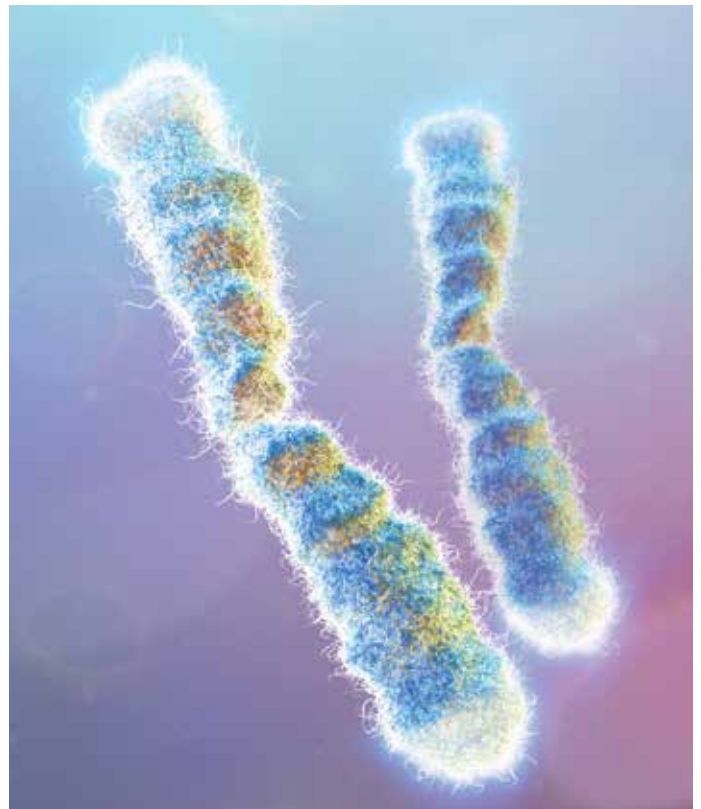
As a result many models have been applied to try to understand just how significant telomere length is as a "key driver" of human aging versus a mere biomarker.

What we know for sure

- Telomere length and loss sets into motion at least two possible regulatory "checkpoint" outcomes that limit cell life and cell replication: senescence and apoptosis. We know that in at least certain tissues these changes lead to what is now called the "Senescent Activated Phenotype" which

involves the inflammatory activation of the immune system and collateral damage to surrounding cell masses that may be neither damaged nor sick. In a very real sense, aging may accelerate aging.

- Replicative demand and stress (most commonly oxidative or nitrosative) are the two main factors in telomere loss. Importantly, both are subject to clinical interventions by the doctor and patient.
- We know that the expression of telomerase is responsible for the genomic preservation of germ line cells, part of the resistance of stem cells to oxidative damage and their enhanced longevity and that the bulk of cells in our body referred to as "somatic cells" have little or no telomerase



expression due to telomerase repression that is not present in the aforementioned cell lines to the same degree.

- We know that longer telomere lengths appear to be protective against cancer but that in approximately 85% of human cancers high levels of telomerase are required for survival of the cancer.
- We know that in cell cultures containing healthy cells with a normal genome the normal limits of replication can be extended to what has been termed “functional immortality” with the introduction and expression of the telomerase enzyme and the obligate subsequent extension of telomere length. (Bodnar et al.)
- We know that telomerase expression may be the only realistic and viable method of mammalian life extension as was demonstrated in mice (Vera et al.).
- And finally we know that overall average telomere length does not correlate nearly as well with cellular dysfunction and aging but the presence of increased numbers of critically short telomeres does.
- The presence and degree of “critically short telomeres” as opposed to average or mean telomere length is increasingly recognized as the driver of aging and cellular dysfunction. It is also the basis for “biologic age” determination. Biologic age is how old the cell tissue or organism acts and functions as opposed to how many years it has been alive.

This information gives us a useful working definition of aging and a useful set of parameters to follow based on telomere measurements. All that remains now is to see if all of these things hold true in larger and larger human databases!

Part of the difficulty is due to the fact that initial studies involved large groups of participants and utilized the same technologies that were developed in basic science during the study of single celled organisms. This set a precedent of specific testing modalities that may actually not be all that useful in individual human testing.

Subsequently successful attempts were made to transition what was once only a basic science tool into potential use for clinical studies and eventually for the individual clinician with the interested patient. It has only been recently however that the later technology has been refined.

As is often the case with cutting edge technologies, the physician who practices Anti-Aging Medicine or some form of Age Management has become the pioneer in this and is asked by the ever more educated and discerning patient to answer the question of biologic age by utilizing telomere testing.

In a very real sense those of us who measure our patients' telomeres will be the ones to answer this question posed above: Do all of these things hold true in larger and larger human databases?

It is imperative therefore that you understand some basic concepts:

- 1) The most commonly measured cell line for assessment of telomere length are the Peripheral White Blood Cell (PBMC's) lines including granulocytes and/or lymphocytes. While different tissues age differently and have distinctively different telomere lengths and loss rates there is a general and useful correlation between peripheral white blood cell measurements and the general health status of the individual and their actual functional or biologic age. For example there is a well established correlation between outcomes in heart disease and WBC telomere lengths (Benetos et al.)
- 2) White blood cell lines are changeable with the patient's health the patient should be in relatively “stable health” both mentally and physically since either parameter can affect numbers of cells and their telomere length. Bottom line: Do not test telomere length when your patient is (atypically) stressed or sick.
- 3) The actual loss or in fewer cases gain of telomere length can be best assessed by time intervals of one or more years depending on the type of telomere testing you decide to use. I cannot stress enough the need to commit to more than one telomere test at some defined time interval (such as annually) to get meaningful information.
- 4) Since the presence and more specifically the number or percentage of short telomeres is correlated with activating the DNA damage response that leads to cell cycle arrest or apoptosis it is the target of research focusing on differentiating biologic age from chronologic age.
- 5) Typical telomere attrition in PBMC's is estimated to range between 50 to 200 base pairs (bps) per year.
- 6) Many test technologies have reproducibility issues and inaccuracies that exceed the actual number of base pairs lost by 2 and 3 fold, making interpretation more difficult and less meaningful. In these cases it would be better to wait several years to repeat the test.
- 7) At this time only there is one proprietary HT Q-FISH technology which allows for the determination of biologic age.

How we measure - currently available clinical methodologies Pro's and Con's

First, be aware that salivary or home salivary telomere testing is not yet available or FDA approved and is unlikely to become approved in the near future. There are essentially no scientifically validated studies around telomere length in saliva and the organism; all serious work to date has been performed in blood. Therefore, in my view, if your patient has done one of these tests, you must unfortunately disregard the results and use a more established proven method.

Q-PCR, uses a DNA amplification signal based on single copy genes. It is relatively inexpensive and likely to become cheaper and is fast

and well suited to studies with large populations of participants. It is not labor intensive and not particularly dependent on expertise and is logistically simple and scalable. It has been the standard used for large data base for comparison values and statistical machination and does not require living cells.

However, there are some very significant drawbacks. The degree of accuracy and reproducibility is listed as “undetermined” compared to other modalities. Values are extrapolated from signal intensity and not directly quantitative and it provides only average (mean) telomere length of the sample, is unable to quantify telomeres individually and therefore biologic age cannot be measured or inferred from this method.

FLO-FISH uses in situ hybridization technology. It is amenable to immunologic determination of lymphocyte profiles (example CD 4 and CD 8). It is more accurate, quantitative and reproducible than **Q-PCR**. However, it is more labor and time intensive and more costly. It is considered a less prominent but not insignificant research tool with good data base size. It does require live cells. But again, a major drawback is that it gives only average telomere length and not short telomere quantification or biologic age.

HT Q-FISH: Uses digital confocal microscopy to access large populations of individual telomeres. There is one lab which has been able to automate for high scalability while maintaining a high level of accuracy and reproducibility. This is becoming the new scientific standard as it is the only technology that can measure telomeres chromosome by chromosome and hence short telomeres which correlates to biologic age. In addition, due to greater sensitivity and accuracy, less time passage between testing is required so may be more useful for clinical interventions. Because it quantifies telomeres individually, it provides the much more useful median telomere length (although average telomere length can also be generated). It is, however, the most expensive assay currently should become more affordable over time. It does require live cells which make logistics more important and it is more labor and time intensive and requires a high level of expertise in the lab.

In conclusion, **HT Q-FISH** is the only technology that currently measures the presence of short telomeres which appears to be the most important consideration for “biological age.”

When you measure, now what?

In order to address this, you need to understand the following:

- 1) A single isolated test of ANY KIND is of little value. Trends are established with 2 or more data points over time.
- 2) No one born before 2010 is likely to have any record of their telomere length at birth or any other time in life until you and they decide to measure it. Therefore you cannot ferret out who was born with long or short telomeres. The length of telomeres at birth is known to vary in healthy individuals based on many factors including parental age and ethnicity as well as transient and chronic physical and mental factors. This again stresses the importance of #1 directly above!

Be prepared for some surprises in your patient population. No matter what technology you decide on you will see “outliers” and

some things that do not make sense especially with the initial measurement. More specifically you will find people who live well outside your recommendations who seem to have “good” telomere measurements and people who are highly compliant that have “bad measurements.” Address this the way you would any other biomarker in the sense of getting your patient healthier. Use the information to make your patient an ally of yours (and theirs!) and get them to take even better care of themselves. Remind them and yourself that a single isolated telomere measurement is of little value without doing another one down the road to establish a “trend”. The more data points you have the better you will be able to assign prognostic value. Remind your patient and yourself.

If a patient was gifted with long telomeres and a great anti-oxidant system they may statically do better - but why not get them to take advantage of what they were given? Similarly if a patient was born with shorter telomeres and poor defenses, it would be prudent to get them to address any factors they can to mitigate the cellular damage that is manifesting as shorter than average (or shorter median) telomeres and an increased or increasing percentage of short telomeres correlating with an older biological age than chronological age.

Analyze your patients’ telomere results reports in the context of their family history and physical. The age of their grandparents and parents on both sides at the time of death is often a telling factor. The company that uses the HT Q-FISH technology has a detailed questionnaire to help you look at known and suspected “Telomere Risk Factors”.

Above all else, follow this field and stay educated because all the signs are pointing to increased ability to intervene in a positive fashion for the overall health and wellness of your patient, and the concomitant need and importance of accurate testing!



Summary

The recent explosion of telomere based research has led to a much deeper understanding of the pivotal role telomere attrition plays in the aging process human and otherwise. The importance of longer healthier telomeres with the concomitant reduction in critically short telomeres that activate the DNA damage response and may prematurely age cells is no longer controversial.

Many of the diseases we associate with aging can be followed and prognosticated with telomere length in addition to more commonly accepted variables.

There are typical and atypical interventions that can mitigate telomere damage and in some cases actually extend telomere length (beyond the scope of this paper), that make telomere testing more than just an interesting number. We can anticipate as the data grows and the robustness of telomere length to disease and aging becomes more widely accepted, so too will telomere testing become far more common and eventually become a standard of care.

There are several different clinical tests available each differing in many critical aspects. When you chose understand that you will want a follow up value at some defined interval to establish a trend for you patient. Similarly if you initiate any interventions in lifestyle or long term pharmaceutical management it would be wise to consider a repeat telomere test at some interval from that intervention.

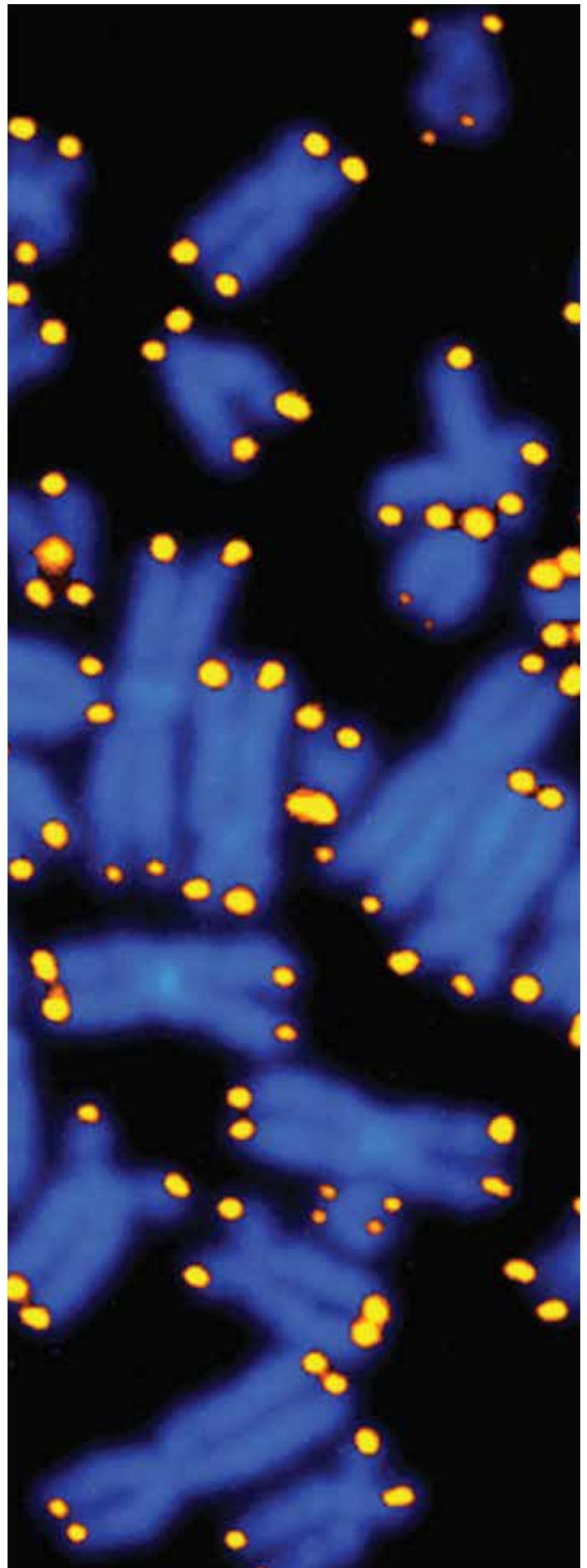
Finally remember you are at the vanguard of the "Anti-Aging Revolution." Take care of and measure your own telomeres!

About the Author

Dave Woynarowski MD is a Board certified Internist and Anti-Aging doctor who went into supplement and Nutraceutical design after 18 years of clinical medicine. He owns and operates his own website DrDave'sBest.com and has written frequent articles about Telomeres, Telomere Measurement Telomerase and TA-65. He is co-author of the book, "The Immortality Edge" with Dr Mike Fossel and Greta Blackburn and co-authored the TA-65 physician's manual with Dr. Fossel. A nationally known expert on telomeres he has lectured at both AMMG and A4M on the topic as well as the Longevity Now conference in Costa Mesa, California. He is currently working on a second book on the topic of Telomeres, Telomerase activation and Longevity. Currently he serves as a consultant to Life Length Inc., RD Stem Cell Inc and is conducting parallel research with stem cells and telomerase activation.

Primary References:

- 1) Bodnar AG1, Ouellette M, Frolkis M, Holt SE, Chiu CP, Morin GB, Harley CB, Shay JW, Lichtsteiner S, Wright WE. Science. 1998 Jan 16; 279(5349):349-52.
- 2) Haruna Takano, Satoshi Murasawa and Takayuki AsaharaJ. Biol Chem. 1999 Sep 10;274(37):26141-8.
- 3) Athanase Benetos, Koji Okuda, Malika Lajemi, Masayuki Kimura, Frederique Thomas, Joan Skurnick, Carlos Labat, Kathryn Bean, Abraham Aviv. Hypertension 37 (2 part 2): 381-385 Hypertension. 2001; 37: 381-385
- 4) Vera E, Bernardes de Jesus B, Foronda M, Flores JM, Blasco MA. PLoS One. 2013;8(1): e5376



Your Medical Practice, Your Way.

What a journey it's been since I first started my fellowship training in anti-aging and preventive medicine in 2004. The fellowship training I received gave me a unique opportunity to help patients in ways I never dreamed of before. The fellowship also put me in an amazing position to start a cash-based practice and get away from the hassles of insurance billing and Medicare/HMO reimbursement rates.

A few questions I had for myself before I started my practice were, "Will I be able to make a nice living practicing this kind of medicine?" and "How will I find my patients and how will they find me?" and "How will I operate, build and market my practice AND see patients?"

Enter BodyLogicMD

When I first looked into joining BodyLogicMD, the company was fairly new with only a few practices in the network. I was nervous, yet excited, about a company that could possibly handle all the business worries I had.

First, BodyLogicMD started me off with a comprehensive business plan. What would have taken me months to develop on my own was readily available for me to implement immediately into my practice. Having a business "map" to follow when starting a new practice is key in helping any business succeed. Still, even if it looks great on paper, how can anyone be sure it actually works?

I took the chance, and was surprised to have my practice up-and-running within a few short months. It was a partnership every step of the way; from finding an office space to negotiating the lease, from finding office furniture to gaining an office staff. I now have a virtual staff that is in charge of finding and maintaining my patient base. Many different marketing strategies are regularly incorporated on my behalf and all prospective patients contact my patient services staff (who I don't pay for) to book their appointments. Finally!...A practice that consists of only seeing patients while not having to worry about the various business hassles.

Since opening my practice nearly six years ago, BodyLogicMD has duplicated my success for approximately 60 other physicians, while still improving their process.

Ongoing Education for Ongoing Opportunities

Other advantages of becoming a physician of the BodyLogicMD network are the numerous educational opportunities. BodyLogicMD physicians participate in educational webinars, hosted by the elite in preventive and functional medicine, as well as presentations hosted by experts in the field of technology and lab testing, which

is constantly changing in the preventive arena. These free webinars are exclusive to BodyLogicMD physicians and are an invaluable resource to continuing my education beyond the fellowship. An elite group of strategic partners also help to open doors for physicians of the BodyLogicMD network because they know we are the highest trained doctors of the most successful anti-aging network in the world.

Another tremendous benefit is the annual business retreat hosted by BodyLogicMD and their lab, pharmacy and supplement partners. There is nothing quite like spending 3-4 days networking with all of my BodyLogicMD colleagues discussing the "biology of business" and new strategies to help me grow my practice.

A Network of Experts at Your Fingertips

One aspect I have found to be very beneficial to my practice is being able to easily communicate with my BodyLogicMD colleagues. Each fellowship-trained doctor is only an email away.

We can contact one another on a daily basis to review challenging cases together or just get input from fellow physicians, who are specially-trained in different areas of medicine. Because all BodyLogicMD physicians are required to be board eligible in a field of medicine before completing the fellowship and

A4M board certification, the network of physicians I work with are incredibly knowledgeable and a great resource.

The network of specially-trained physicians isn't the only support I

have for my practice. BodyLogicMD also provides me with excellent marketing support.

The marketing team provides me with materials specifically designed for my practice. Many of us have been published and quoted in countless local and national magazines and newspapers, best-selling books and influential websites like Foxnews.com, Oprah.com and national television programs including Dr. Oz.

The Time to Join is Now

BodyLogicMD has the know-how to put you into a successful bioidentical hormone replacement therapy and functional medical practice. You can purchase your own BodyLogicMD practice or join an existing practice. If you're interested in working with the most highly-trained and experienced physicians in the country, visit join.bodylogicmd.com or email Julie Seymour at jseymour@bodylogicmd.com.



Jennifer Landa, MD

Chief Medical Officer
BodyLogicMD



Join the most successful national franchise of bioidentical hormone physicians!

- ◆ Own a BodyLogicMD franchise
- ◆ Join an existing physician-owned franchise
- ◆ Specialize in bioidentical hormone therapy
- ◆ Comprehensive practice solution
- ◆ Proven market leaders
- ◆ Do what you do best, see patients



Learn more.



bodylogicmd®
Hormone Therapy | Fitness | Nutrition

join.bodylogicmd.com

Detoxify For Life

By John Cline, MD, BSC, CCFP

Introduction

The process of detoxification involves the mobilization, biotransformation and elimination of toxicants of exogenous and endogenous origin. Detoxification is a vital cellular task that if lacking will lead to early morbidity and mortality. Our cells expend large amounts of energy to ensure that detoxification pathways continue to do their work. A variety of macro and micronutrients are required on a continuous basis in order to construct the multitude of enzymes for the various oxidation, reduction, hydrolysis, and conjugation pathways – as well as the provision of enzymatic cofactors, phytochemical antioxidants and fiber.¹ Patients often request a 'detoxification program' and are surprised to learn that it is not a program that is required but a detoxification lifestyle that needs to be adopted. Components of this lifestyle include: avoidance of environmental toxicants (such as heavy metals, persistent organic pollutants and electromagnetic radiation), mobilization/elimination of toxicants via loss of excessive fat, and use of saunas, chelation therapy and exercise², optimal gastrointestinal health³, excellent nutrition and hydration¹, attention to stress/resilience and relational health, as well as adequate sleep/relaxation.⁴ It is important for health practitioners to model the detoxification lifestyle which then encourages patients to adopt similar health practices.

Detoxification/ Biotransformation Pathways

The process of detoxification involves multiple steps in the biotransformation of primarily non-polar, lipid-soluble toxicants into polar, water-soluble and excretable derivatives – as originally postulated by Roger Williams in his 1947 monograph *Detoxification Mechanisms*. Since then a large body of literature has been published⁵ leading to the current understanding of how detoxification can be utilized in the prevention and treatment of disease in clinical practice. Figure 1 is an important tool that summarizes the Phase I and Phase II detoxification/biotransformation pathways which allows a conceptual framework for clinician and patient. Toxicants originate from exogenous sources such as drugs (pharmaceutical, recreational), heavy metals, chemicals (herbicides, pesticides, insecticides, food additives, household cleaners and other pollutants), microbials and so on. Toxicants also originate from endogenous sources such as bacterial endotoxins and end products of metabolism¹. It is important to realize that steroid hormones are also metabolized through these pathways.

Phase I Detoxification Pathways

The majority of the detoxification/biotransformation processes occur in the liver and the enterocytes which line the intestine. They are also found in many other organs such as the brain, lungs, kidneys and skin. The Phase I system is comprised of at least 57 pathways known as the cytochrome (CYP) P450 family of mixed function oxidases.⁶ Nine of the most commonly utilized CYP pathways are: 1A1, 1B1, 2A6, 2B6, 2C9, 2C19, 2D6, 2E1 and 3A4. In Phase I, toxicants are transformed to more polar, less lipid-soluble forms through the processes of oxidation, reduction or hydrolysis reactions. In order for the P450 enzymes to be present and conformationally active, one must consume high-quality, bioavailable protein as well as a host of phytonutrients, botanicals, minerals, fats and carbohydrates.¹ These are required for epigenetic modification of transcription and production of the various CYP enzymes; enzymatic cofactors, production of energy and so on. It is understood that after going through the Phase I processes, the activated toxicants are often more toxic than their parent compounds. If these activated intermediate metabolites are not further metabolized via the Phase II conjugation pathways, they may cause damage to the cells by covalently binding to various proteins, lipids and nucleic acids within the cells. Reactive oxygen species are also a byproduct of the Phase I activity. Therefore, adequate antioxidant nutrient protection is required to quench the propagation of free radical activity with a number of plant derivatives⁷ including: the carotenes (lycopene, beta-carotene, lutein, zeaxanthin, astaxanthin), ascorbic acid, tocopherols, thiols, bioflavonoids, silymarin, pycnogenol, selenium, copper, zinc and manganese (Figure 1). Other nutrients include: N-acetylcysteine, alpha lipoic acid, polyphenols (pomegranate, green tea, raspberries etc.) and curcumin.⁸

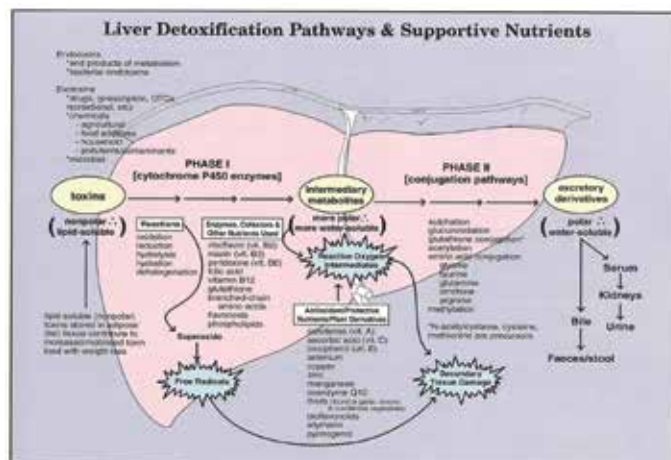


Figure 1 Liver detoxification pathways and supportive nutrients (used with permission from the Institute for Functional Medicine.)

Phase II Detoxification

The majority of intermediate metabolites will progress on to the Phase II conjugation pathways where they are joined to constituents such as glucuronide, sulfate, glutathione, various amino acids (taurine, glycine, arginine, glutamine, serine and proline), acetyl and methyl groups. The biotransformed polar and water-soluble toxicants are



Detoxification Lifestyle Strategies

Once the foundation of good nutrition has been established then other strategies are usually more effective including the optimization of gastrointestinal health, the mobilization and elimination of toxicants such as heavy metals, persistent organic pollutants via the use of chelation therapy, saunas, exercise, weight loss and so on. An important aspect of the detoxification lifestyle is the elimination of abnormal electromagnetic fields and restoration of balance in the body's innate electromagnetic grid also known as the "living matrix".¹⁷ Highly effective tools have been developed to assist the body in balancing the living matrix such as Biofeedback combined with Focused Field Stimulation.¹⁸

then excreted via the bile and feces or via the serum, kidneys and urine. As the various constituents of conjugation are bound to the toxicants, there is potential for them to become depleted unless there is an ongoing dietary supply.¹ Therefore, excellent nutrition is imperative for a detoxification lifestyle.

Once conjugated toxicants exit the liver via the bile, they are excreted into the feces. One component of bile is the bile acids which are necessary in the emulsification and solubilization of dietary fats. In the distal small bowel 90-95% of the bile acids are reabsorbed and returned to the liver, thus recycling and conserving them. This cycling of bile acids occurs approximately twelve times each day and is known as the enterohepatic circulation.⁹ Microbes found in the intestinal lumen contain enzymes (such as beta-glucuronidase) which can cleave the conjugated toxicants, reactivating them, and allowing them to reabsorb into the portal system ending up once again in the liver. The enterohepatic circulation allows essential compounds such as estrogen and vitamin D to be conserved.^{10,11} There is some evidence in animal models that the alginate chlorella, has the potential to inhibit the absorption of certain heavy metals and organic pollutants across the intestinal mucosa, decreasing the enterohepatic circulation of these toxicants.^{12,13}

"Let food be thy medicine" as taught to us by Dr. Hippocrates is as true today as it was in 400 BC. Using a focus on food to support the highly complex processes of detoxification and biotransformation is the wise approach. If we consider that an apple contains at least 700 different phytochemical compounds – it is better to eat the apple as one of a variety of foods than to try and replicate with single nutritional supplements.¹⁴

The first goal in the use of nutrition in detoxification is to remove from the diet foods and beverages, as well as food allergens that have potential to increase toxicity in the body. Examples include removing foods containing: petrochemical residues from farming practices, polycyclic aromatic hydrocarbons such as charbroiled meat, trans fats; and water contaminated with metals and chemicals. Next, it is important to add to the diet foods that are clean which nourish the organs of detoxification providing substrates and cofactors for optimal detoxification, as well as foods that positively modify genetic expression and cell signaling.¹⁵ A most useful therapeutic tool developed by the Institute for Functional Medicine is the Comprehensive Elimination Diet¹⁶ which helps patients become their own medical detectives in discovering the foods or beverages that cause their body to react.

Case History

This case history is a compilation of two cases supervised by Dr. John Cline MD and utilizes the Functional Medicine approach to critical thinking looking at antecedent, triggering and mediating factors. A 58-year-old G2P1A1 married woman presented with fatigue, frequent respiratory infections, nightmares with sleep disturbance for many years, anxiety, sensitivities to fumes and fragrances, symptoms of allergic rhinitis, as well as paradoxical reactions to many medications. She had been a vegetarian for several decades. Taking an environmental history revealed that she had grown up in an old house that had lead-based paint and lead water pipes. Many mercury dental amalgams were placed in her teeth as a child. Completing a degree in art/photography exposed her to many kinds of paints (containing organic chemicals and metals such as lead, cadmium, mercury, thallium etc.). Working in the dark rooms for photographic development exposed her to various chemicals in an enclosed space.

She and her husband had renovated several old houses which would have exposed her to lead-based paint, solvents, glues, lacquers, and possibly asbestos. They built a new house seven years before our meeting. There were four cordless telephones as well as wireless internet in the house. She used a cell phone several times per day holding it to her head. She noticed that with prolonged cell phone conversations she would experience a burning sensation on the same side of her head. On examination she appeared tired, nervous and her skin was dry. BP = 102/78 with pulse 72 BPM and regular. Nasal turbinates showed signs of chronic inflammation. Examination was otherwise unremarkable. Her lab work revealed normal CBC with suboptimal B12 = 328 pmol/l (N = 150 – 650 pmol/l), 25 (OH) Vitamin D suboptimal = 74 nmol/l (N = 75 – 150 nmol/l), low IgA = 0.6 g/l (N = 0.78 – 3.58 g/l) and normal Tissue Transglutaminase IgA Antibody (TTG) = < 5 units (N = < 20 units). The normal appearing TTG could have been falsely low because of the low IgA. Skin testing for inhalant allergies revealed moderate reactions to house dust mite, dog and horse danders and broom. She was advised to place dust mite covers on her pillows and mattress. She was placed on a therapeutic oral dose of pharmaceutical-grade fish oil, Vitamin D3, sublingual methylcobalamin and a B-complex.

Genomic analysis of her phase I and phase II biotransformation/detoxification pathways revealed single nucleotide polymorphisms (SNPs) present in phase I CYP1A1, CYP1B1 and CYP3A4 pathways.

Analysis of the phase II pathways revealed SNPs present in two of the NAT2 (N-Acetyl Transferase) slow metabolizer pathways as well as the fast metabolizer pathway. Of great significance was the complete absence of GSTM1 (Glutathione S-Transferase) which is found in the liver and kidneys. This pathway is one of the major pathways for the biotransformation/detoxification of many environmental toxicants such as solvents, herbicides, fungicides, lipid peroxides and heavy metals (mercury, cadmium lead, etc.). It was suggested that she minimize exposure to the various chemicals/metals in her environment such as cigarette smoke, herbicides, fungicides, insecticides, industrial solvents, polycyclic aromatic hydrocarbons (cigarette smoke, vehicle exhaust etc), polychlorinated biphenyls, and xenoestrogens such as organochlorines etc. Dietary advice was given in regards to the genetic SNPs that were discovered. This included eating a diet rich in antioxidants (colorful fruits and vegetables), emphasizing the cruciferous vegetables (broccoli, Brussels sprouts, cauliflower, watercress, cabbage and kale), garlic, onions, and berries. She was advised to avoid eating charbroiled, fried foods, and red meat. She was advised to take nutritional supplements to redirect metabolism away from the 4-hydroxylation of estrogens with nutritional supplements such as diindolylmethane (DIM), indole 3-carbinol (I3C), fish oils, and rosemary. She was also encouraged to include glutathione precursors and cofactors such as methionine, N-acetylcysteine, L-glutamine, glycine, magnesium and pyridoxal-5-phosphate as well as the use of alpha-lipoic acid, milk thistle, and taurine.



She was placed on a comprehensive elimination diet and discovered that she had significant reactions to gluten and dairy. Therefore, these were eliminated from her diet. She tested her home for dirty electricity using a Graham Stetzer microsurge meter and found fields in the order of 600 – 1000 dV/dt ($N = <25$ dV/dt) and placed a number of Graham Stetzer filters in the plug-ins throughout her home. She exchanged her cordless telephones for land-line telephones and obtained cable internet. She observed an immediate cessation of her chronic nightmares. She was advised to avoid placing cellular telephones near her head. She went through a heavy metal detoxification program which involved dietary measures, nutritional supplements, dental work (replacing her mercury amalgams with BPA-free composites) and chelation therapy.

The treatment program resulted in renewed energy, cessation of nightmares with better quality sleep, no further anxiety, marked decrease in frequency of respiratory infections, improvement in allergic rhinitis symptoms, and diminished reactions to fumes and fragrances.

In summary, components of a detoxification lifestyle have been reviewed emphasizing the 'food as medicine' foundational approach recognizing that an important aspect of the detoxification lifestyle is the elimination of abnormal electromagnetic fields and restoration of balance in the body's innate electromagnetic grid also known as the living matrix. A case study illustrating the detoxification lifestyle is presented.

References:

- ¹ Alexander BJ, Ames, BN, Baker SM, et al. 2010. Textbook of Functional Medicine, 275-298. Gig Harbor: The Institute for Functional Medicine.
- ² Genuis SJ. Sensitivity-related illness: The escalating pandemic of allergy, food intolerance and chemical sensitivity. *Sci Total Environ.* 2010;408(24):6047-6061.
- ³ Laskin F. 2002. *Forgive For Good: A Proven Prescription for Health and Happiness.* New York: HarperCollins Publishers Inc.
- ⁴ Zmrzljak UP, Rozman D. Circadian regulation of the hepatic endobiotic and xenobiotic detoxification pathways: time matters. *Chem Res Toxicol.* 2012;25(4):811-24. Review.
- ⁵ Eastbrook RW. A passion for P450s (remembrance of the early history of research on cytochrome P450). *Drug Metab Disp.* 2003;31:1461-73.
- ⁶ Daly AK. Pharmacogenetics of the cytochromes P450. *Curr Top Med Chem.* 2004;4(16):1733-44.
- ⁷ Wang Y, et al. Dietary total antioxidant capacity is associated with diet and plasma antioxidant status in healthy young adults. *J Acad Nutr Diet.* 2012;112(10):1626-35.
- ⁸ Liska D, et al. Detoxification and biotransformational imbalances. *Explore (NY).* 2006;2(2):122-40.
- ⁹ Genuis SJ, Jandacek RJ. An assessment of the intestinal lumen as a site for intervention in reducing body burdens of organochlorine compounds. *Scientific World Journal* 2013;205621.
- ¹⁰ Adlercreutz H, Marin F, Pulkkinen M, et al. Intestinal metabolism of estrogens. *J Clin Endocrin Metab.* 1976;43(3):497-505.
- ¹¹ Gorbach SL, Bengt E. Function of the normal human microflora. *Scand J Infect Dis Suppl.* 1986;49:17-30
- ¹² Uchikawa Y, Yasutake A, Kumamoto Y, et al. The influence of parachlorella *beyerinckii* CK-5 on the absorption and excretion of methylmercury in mice. *Journal of Toxicological Sciences* 2010;35(1)101-105.
- ¹³ Morita K, Ogata M, Hasegawa T. Chlorophyll derived from *Chlorella* inhibits dioxin absorption from the gastrointestinal tract and accelerates dioxin excretion in rats. *Environmental Health Perspectives* 2010;119(3):289-294.
- ¹⁴ Sapone A, et al. On enzyme-based anticancer molecular dietary manipulations. *J Biomed Biotechnol.* 2012;2012:790987. Review.
- ¹⁵ Zhao L, et al. Inhibition of pattern recognition receptor-mediated inflammation by bioactive phytochemicals. *Nutr Rev* 2011;69(6):310-320.
- ¹⁶ Alexander BJ, Ames, BN, Baker SM, et al. 2010. Textbook of Functional Medicine, 800-813. Gig Harbor: The Institute for Functional Medicine.
- ¹⁷ Oschman JL. Charge transfer in the living matrix. *J Bodyw Mov Ther.* 2009 Jul;13(3):215-28. Review. PMID: 19524846.
- ¹⁸ Oschman JL. The science supporting the use of pulsing electromagnetic field therapy and ONDAMED® Part 1. *Townsend Letter.* 2008;June (299):75-78.

About the Author

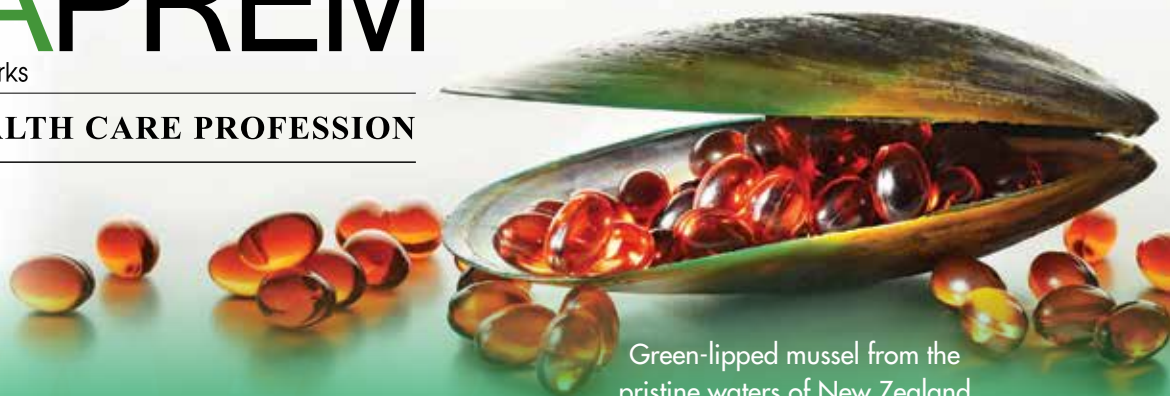
Medical director Dr. John C. Cline is a license medical doctor in BC and certified by the International Board of Clinical Metal Toxicology. Dr. Cline is also medical director of the Oceanside Functional Medicine Research Institute. Dr. Cline is the author of the book 'Detoxify For Life,' a comprehensive analysis of the many toxic substances that permeate our lives. To review and purchase this book online, please visit the Detoxify For Life website. Dr. Cline holds degrees in biochemistry (1982) from the University of Calgary, where he graduated with a Medical Degree in 1985. He then completed two years of postgraduate residency in family practice at the Holy Cross Hospital in Calgary and was successful certified by the Canadian College of Family Physicians in 1997.



OMAPREM[®]

by Great HealthWorks

FOR THE HEALTH CARE PROFESSION



Green-lipped mussel from the
pristine waters of New Zealand

The Most Potent Natural Solution for Pain & Inflammation

30 Years of Published Clinical Studies



**Studies show that OMAPREM[®] is
100 times more effective at reducing
inflammation compared to fish oil.***

- Patented Oil Extract PCSO-524[™]
- COX-2 & 5-LOX Inhibition
- Superior Purity & Potency
- No Known Side-Effects
- No Known Drug Interactions
- Unique Blend of Over 30 Bioactive Fatty Acids

Substantial on-going revenue
for your practice.

800-613-6269

View clinical studies online at **OMAPREM.com**

**Stop by the OMAPREM[®]
Booth to hear about
our special offer for
Health Care Professionals**

*ANTI-INFLAMMATORY ACTIVITY OF A LIPID FRACTION (PCSO-524[™]) FROM THE NZ GREEN-LIPPED MUSSEL
M.W. WHITEHOUSE 1*, T.A. MACRIDES 2, N. KALAFATIS 2, W.H. BETTS 3, D.R. HAYNES 4 AND J. BROADBENT 5

Get Social with



We are excited about our expanding social media presence
& we want to connect with YOU!



@A4MEVENTS



The American Academy
of Anti-Aging Medicine -
Conferences & Exhibits



A4Mblog.wordpress.com



A4MEVENTS



The American Academy of
Anti-Aging Medicine (A4M)

To share your A4M experience with us,
use #A4MORLAND014 on Facebook & Twitter

Are you testing Nitric Oxide levels?

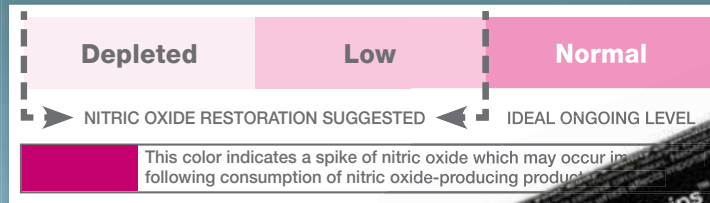
Neogenis® Test Strips

The first and only **instant-read saliva test** for Nitric Oxide level.

And Introducing...

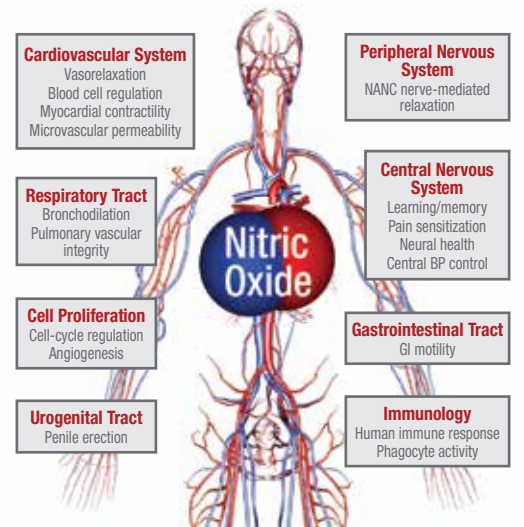
Neo40® Daily

A breakthrough formula proven to help the body restore Nitric Oxide levels naturally, which can help maintain healthy blood pressure and overall cardiovascular health.



**FREE
TESTING
At Booth
#403**

**Nitric Oxide is critical for
virtually every system in the body.**



"The discovery of Nitric Oxide and its function is one of the most important in the history of cardiovascular medicine."
— President of The American Heart Association, quoted in The New York Times

Meta-Cardio Formula

Meta-Cardio Formula combines robust ingredients to address the factors of metabolic syndrome.

- Support healthy blood lipid levels
- Support healthy blood sugar balance
- Support healthy blood pressure and body composition



NiacinX is an extended-release niacin tablet clinically researched for its ability to support healthy blood lipids.

- Proprietary technology that helps minimize niacin "flush"
- Easy-to-swallow 750 mg tablets allow for convenient twice-daily dosing



These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



200+ Products — Ask About Our Non-Stocking Option
Order online at www.cpmedical.net Or call Customer Service at 888.401.0967

Prescription Fish Oils: Are they better options than dietary supplements?

By THOMAS
Guilliams, PhD

There is overwhelming data to recommend a wide range of therapeutic uses for marine-derived omega-3 fatty acids (primarily EPA and DHA). Likewise, there are also an overwhelming number of different forms, sources and ways to deliver these omega-3 fatty acids; which unfortunately, has led to confusion in product selection for both clinician and patient alike. The introduction of fish oil omega-3 products as prescription pharmaceuticals in the United States has increased the debate about the appropriate product to use in clinical practice. Here are some of the issues to consider.

Dietary Supplements vs. Pharmaceutical Products

Currently there are only two approved pharmaceutical products on the market in the US. Lovaza (formerly Omacor: GlaxoSmithKline), an ethyl ester (EE) form of fish oil providing 465 mg of EPA and 375 mg of DHA (840 total) in a single softgel; and Vascepa (Amarin) which is a 1 gram capsule of an EE form of EPA-only fish oil; both indicated for severe hypertriglyceridemia (TG > 500mg/dl). The rationale for Vascepa's EPA-only approach, according to Amarin's marketing perspective, is that the EPA does not raise LDL-C as is common with DHA (or Lovaza). Neglected in this perspective is that DHA also raises HDL-C, and dramatically increases LDL particle size which is both cardio-protective and the very reason LDL-C is increased when DHA is administered. This "anomaly" of DHA (slight increase in LDL-C) is actually a signal of a beneficial shift in lipid metabolism. Unfortunately, since the lipid-lowering guidelines are fixated on reducing LDL-C as a primary goal, the marketing of an EPA-only product for cardiovascular health will no doubt mislead many who target LDL-C alone.

Some dietary supplement companies refer to their fish oil products as "Pharmaceutical Grade." While this term is misleading, in that no such designation exists for products which are not approved as pharmaceuticals in the US; reputable suppliers of highly concentrated fish oil dietary supplements provide products which are just as pure and effective as those approved as pharmaceuticals. In fact, as we will soon show, the "bio-identical" triglyceride form of fish oil that proves to be the best choice for clinicians is currently only available as a dietary supplement.

Fatty Acid forms & structures

When fatty acids are harvested from fish, they are typically in the form of triglycerides (TG) with some additional free fatty acids (FFA). Un-concentrated fish oil products (30% EPA/DHA as natural TG) are commonly available for increasing total omega-3 intake, although

these products are rarely used in clinical trials because of their low concentration. In order to increase the concentration of EPA and DHA, the fatty acids are removed from the glycerol molecule, where the resulting free fatty acid is stabilized as an ethyl ester. In this form, the EPA and DHA can be purified from contaminants and concentrated by removing saturated fats and shorter fatty acids. Once concentrated, these ethyl esters can be used directly, or used to reassemble a triglyceride molecule (usually called a re-esterified TG). These "bio-identical" triglycerides only differ from the original molecule in that they usually contain 2 (rather than 1) EPA or DHA per triglyceride molecule. While both of the approved pharmaceutical products use the EE form, concentrated rTG and EE are available as dietary supplements in the US.

Bioavailability Studies: EE vs. TG

The efficacy of omega-3 fatty acid therapy is greatly influenced by their bioavailability. Therefore, numerous studies have been performed to compare short and long-term bioavailability in human subjects using omega-3 fatty acids from different sources and in different molecular forms. Since the creation of the ethyl ester (EE) forms of omega-3 fatty acids, many people have questioned the potential change in bioavailability of these forms, compared to the natural triglyceride forms. The early studies were small, but already these data revealed either a slightly reduced bioavailability of the EE forms (compared to TG forms, especially in the absence of additional dietary fat) or a statistically similar bioavailability between EE and TG forms.¹ However, several larger and better designed studies have shown a superior bioavailability of the rTG forms over EE forms.

In fact, one of the better studies performed to date compared similar doses of EPA and DHA using 5 different forms: un-concentrated triglycerides (what they called fish body oil-FBO), Cod Liver Oil (similar TG form as FBO), rTG, EE, or FFA, along with a "placebo" of corn oil (CO). In this study, 72 subjects were randomly assigned 3.3 grams per day of a blend of EPA + DHA daily as capsules for 2 weeks.² Figure 1 shows the changes in serum fatty acids after 2 weeks in EPA, DHA and EPA+DHA in subjects consuming these different forms. In these subjects, the bioavailability of EPA+DHA from re-esterified triglycerides (rTG) was superior (+24%) when compared with natural fish oil (fish body oil or cod liver oil), whereas the bioavailability from ethyl esters (EE) was inferior (-27%) to the natural TG and nearly 70% less bioavailable than the rTG in these subjects. The authors suggest that the increased bioavailability of rTG over the un-concentrated TG form may be due to the fact that rTG products also contain di-glycerides along with a very small amount of mono-glycerides which act as "partially digested forms" of the natural triglyceride, potentially enhancing the bioavailability

over the natural fish body oil. Concerning the EE form, numerous studies have shown a decreased lipase enzymatic activity when ethyl ester substrates are used, perhaps accounting for their decreased absorption when consumed away from a meal containing fat.

Ultimately, what we would like to know is whether any of these differences in bioavailability over two weeks might translate into long-term differences in fatty acid incorporation into important tissues and whether these differences can be measured in a clinically meaningful outcome. These sorts of studies have actually been carried out by researchers in Germany, where they looked at the incorporation of EPA and DHA into red blood cell membranes, commonly referred to as the omega-3 index, when individuals consumed either EE or rTG forms of fish oil.



Figure 1: Bioavailability of EPA, DHA and EPA + DHA in healthy subjects over 2 weeks (~3.3 grams/day). See text for more details.(2)

This study looked at 150 hyper-lipidemic subjects who were also taking statin drugs.³ Subjects were given soft gelatin capsules containing EPA (1008 mg) and DHA (672 mg) daily in either rTG or EE forms (corn oil used in placebo group); and were followed for 6 months. Figure 2 shows the change in omega-3 index (%EPA+DHA in RBC plasma membrane). Subjects consuming the rTG form had, on average, a statistically higher omega-3 index than those consuming the EE form after three months, which was maintained even after 6 months of daily intake.

In a separate publication, the lipid lowering effects of these two therapies were revealed.⁴ What they found was that while both the EE and rTG reduced serum TG levels in these patients compared to placebo; the rTG changes were nearly double that of the EE form

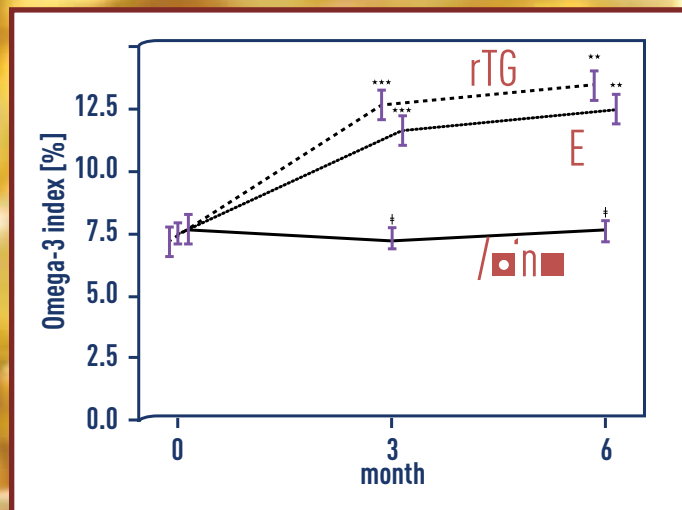


Figure 2: Change in Omega-3 index in hyperlipidemic subjects consuming 1680 mg of EPA + DHA over a 6 month period of rTG or EE fish oil.

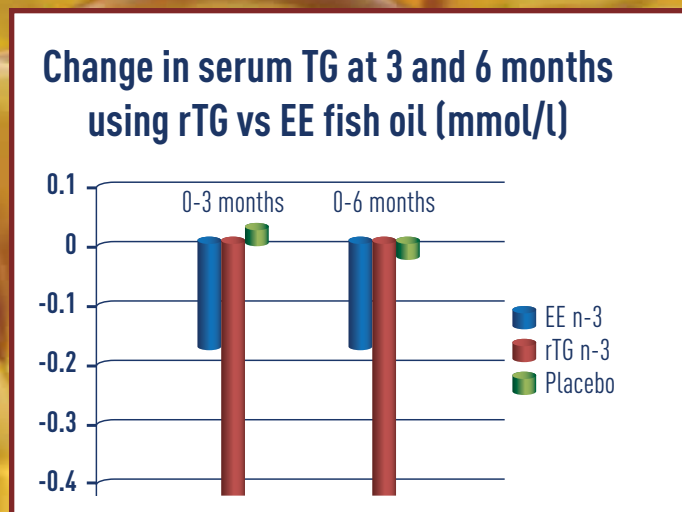


Figure 3: TG-lowering data from subjects in Figure 2.

and the only therapy to reach statistical significance was the rTG therapy (Figure 3). So while there was a modest (but statistical) improvement in omega-3 index using the rTG form- the triglyceride lowering effects of this form, compared to the EE form, are much more substantial.

Since hypertriglyceridemia is the only approved indication for prescription omega-3 products (although there are many other uses of EPA and DHA)- this data would suggest that, for TG-lowering therapies, selecting a concentrated rTG fish oil is preferential to an EE product.

Quality control issues of fish oil

We are several decades into the regular use of fish oil derived omega-3 fatty acids as dietary supplements and pharmaceutical products worldwide. Nearly all of the quality control issues that plagued the first few years of fish oil availability, such as heavy metal contamination, pesticide residues and rancid oils are rare instances in today's products. A number of highly reputable organizations (e.g.: GOED-Global Organization for EPA and DHA; CRN- The Council of Responsible Nutrition) have developed standards for fish oil products which set specific limits for heavy metal contamination, a wide variety of organic pollutants and oxidation limits. Most of the global fish oil providers maintain all of their products to these high standards. This is especially true of the concentrated products (rTG and EE forms); and since heavy metal and pesticide residue are virtually impossible to add during the manufacturing process, monitoring oxidation of the fatty acids is one of the critical steps in producing a high quality product.

Fish oil oxidation is measured using two methods. The first measures oxidized fatty acids directly as a peroxide value (PV or POV). Since these peroxides are transient and can form secondary oxidized molecules (like aldehydes), a second test is used to detect these oxidized compounds--the anisidine (or p-anisidine) test. When we combine these values by adding the anisidine value to twice the peroxide value ($AV+2PV$), we get the TOTOX value.⁵ To control the oxidation of the fish oil raw material and finished product, most manufacturers add a variety of antioxidant compounds. The most popular are vitamin E, vitamin A, flavonoids, and rosemary extracts or other spice extract; rarely synthetic antioxidants are used. Most commercially available products will contain one of more of these antioxidants, at very low doses, in the finished product. Manufacturers of liquid-filled bottles or softgel capsules also utilize nitrogen (to purge available oxygen), low light and cold temperatures in the manufacturing process to reduce oxidation and extend shelf-life. Products used after their expiration date should be thrown away, as oxidized fish oil can act as a pro-oxidant and limit the benefits realized if consumed.



Recommendations for Selecting Therapeutic Marine Omega-3 Fatty Acid

- The best therapeutic option for delivering marine omega-3 fatty acids is a concentrated "bio-identical"- rTG form of fish oil. A single softgel containing rTG fish oil can easily provide well over 700 mg of EPA and DHA and rTG forms outperforms the EE version of fish oil in terms of bioavailability and raising omega-3 index.
- Prescription pharmaceutical omega-3 fatty acids are only available in an EE form. However, in the event that a person's insurance is willing to pay for these products upon the diagnosis of severe hypertriglyceridemia ($TG>500$), these products have been shown to be safe and effective; albeit slightly less so than rTG forms available as dietary supplements. EE products should be consumed with a high-fat meal for best absorption, although it is important to instruct patients to add only healthy fats.
- Clinicians should consider having (or recommending) various blends of omega-3 products (some high in EPA, high in DHA, or a blend of EPA and DHA) to address different therapeutic targets. (see our paper addressing different therapeutic uses of EPA and DHA at www.pointinstitute.org)
- Clinicians can use blood testing (such as the omega-3 index) to determine the EPA and DHA status of patients and monitor dosage accordingly.

For a longer version of this article- including information about krill oil, manufacturing techniques, allergy concerns and more, download a free copy at: www.pointinstitute.org (whitepaper section).

References

- ¹ For a recent review of EPA and DHA bioavailability studies see: Schuchardt JP and Hahn A. Bioavailability of long-chain omega-3 fatty acids. Prostaglandins Leukot Essent Fatty Acids. 2013 Jul;89(1):1-8.
- ² Dyerberg J, Madsen P, Møller JM, Aardestrup I, Schmidt EB. Bioavailability of marine n-3 fatty acid formulations. Prostaglandins Leukot Essent Fatty Acids. 2010 Sep;83(3):137-41.
- ³ Neubronner J, Schuchardt JP, Kressel G, Merkel M, von Schacky C, Hahn A. Enhanced increase of omega-3 index in response to long-term n-3 fatty acid supplementation from triacylglycerides versus ethyl esters. Eur J Clin Nutr. 2011 Feb;65(2):247-54.
- ⁴ Schuchardt JP, Neubronner J, Kressel G, Merkel M, von Schacky C, Hahn A. Moderate doses of EPA and DHA from re-esterified triacylglycerols but not from ethyl-esters lower fasting serum triacylglycerols in statin-treated dyslipidemic subjects: Results from a six month randomized controlled trial. Prostaglandins Leukot Essent Fatty Acids. 2011 Dec;85(6):381-6.
- ⁵ For a more detailed explanation of this, a helpful summary can be found online at: <http://www.oilsfats.org.nz/Oxidation%20101.pdf>

About the Author: Thomas Guillems PhD, is Director of the Point Institute of Nutraceutical Research, research arm of Ortho Molecular Products, where he serves as the VP/Director of Science and Regulatory Affairs. He is also a clinical instructor for the UW-Madison School of Pharmacy. His focus is on the evidence-based approach of Nutraceuticals.

THE 8TH ANNUAL ANTI-AGEING & AESTHETIC MEDICINE CONFERENCE 2014

Stress & Ageing: Taking Theory to Practice

16–17 August 2014

Why Attend?

JOIN WORLD LEADERS in the integration of multiple medical streams to learn groundbreaking advances in evidence-based, best-practice protocols for the early detection, prevention and treatment of chronic stress, metabolic disorders, the rate of cellular ageing and premature decline.

OPTIMISE individual patient outcomes, to enhance patient satisfaction and your professional practice, with preventative, integrative and anti-ageing medicine.

LEARN multi-discipline strategies in nutrition, exercise, lifestyle for better patient outcomes and the latest clinical protocols to diagnose and help balance the debilitating effects of high stress levels.

REJUVENATE your current practice with the latest cutting edge technologies and procedures.

LEARN hands-on the latest in anti-ageing protocols and aesthetic procedures from respected industry experts.

ENERGISE your business with the introduction of new systems.

NETWORK with colleagues and establish direct contact with key manufacturers and suppliers.

"Research into the interaction between psychological stress and oxidative, metabolic stress within cells is yielding biomarkers of ageing"

Ergün Sahin 2012

SIGN UP TODAY & SAVE!

Early Bird Special 2 Day Conference

A4M Members: \$800 (normally \$900)

Non Members: \$900 (normally \$1,100)

Early Bird
Offers expire
30 MAY 2014

ADD IN A PRECONFERENCE WORKSHOP!

Early Bird 2 Day Conference + Preconference Workshop

A4M Members: \$1,250 EB* (normally \$1,350)

Non Members: \$1,400 EB* (normally \$1,500)

* Prices apply when purchased as a package. Early Bird Expires: 30 May 2014.

This offer cannot be used in conjunction with other offers.

All prices are GST inclusive and in \$AUD. See website for cancellation policy

PAYMENTS ONLINE REGISTRATION: www.a5m.net/events

PRECONFERENCE WORKSHOPS

8.30am – 5.30pm

Friday 15 August 2014

Sofitel Melbourne on Collins

www.a5m.net

The Science of Stem Cells & PRP

Dr Joseph Purita (US) MD



The Metabolic Triads

Dr Andrew Heyman (US) MD, MHSA

Dr James LaValle (US) R Ph, CCN, ND



REGISTER
NOW!

PRECONFERENCE WORKSHOPS

Cost: A4M members \$550 | Non members \$600*

Notes, refreshments and lunch included in registration



From BHRT to Skin Care: What the Wellness Physician Needs to Know About Anti-Aging Cosmeceuticals

By Rick Rhoads, Pharm.D

If you are prescribing bio-identical hormone replacement therapy, you need to consider integrating professional skin care into your practice.

Middle-aged patients are more motivated than ever to find medical options that enhance wellness and improve vitality¹. This includes a more vibrant and healthy looking appearance on their face and neck.

The average woman experiences a 30% loss of skin collagen in the first 5 years after menopause². This coincides with several other unwanted changes in their skin such as loss of elasticity, brown spots, dullness, and sallow looking skin. The modern woman does not accept the previous paradigm that one must have an old and tired appearance after the age of 60. This is especially true of your patients who use BHRT. As they start to feel "back to normal", they invariably will focus on their appearance.

BHRT doctors should be recommending anti-aging skin care

The anti-aging physician is perfectly positioned to fill this need by becoming the resource for cosmeceuticals and aging skin. After all, our skin is the most visible part of us that experiences aging. If you treat patients with BHRT and nutraceuticals for internal aging, cosmeceuticals would be a natural extension of that regimen. Women feel their body changing on the inside, and see it changing on the outside. You can help them with both.

Unfortunately, in my experience as a pharmacist, many wellness doctors are not offering professional options for

aging skin. This is not just a missed opportunity for your patients but also your practice. Prices of high-end cosmeceuticals can exceed \$150 for one bottle. This revenue should stay within your practice instead of going to a department store or med-spa down the street. The BHRT physician needs to be addressing anti-aging skin care as an adjunct to wellness and preventative medicine.

Understand the basics of skin aging

Before recommending professional skin care, it is important to have a basic knowledge of the biological process of skin aging. Although a natural improvement may occur from BHRT alone, other ingredients are necessary to address the many factors of aging.³

In general, skin aging is determined by three factors: chronology, hormonal decline, and environmental damage. The most significant extrinsic factor is photo-damage.

Free radicals have both direct and indirect effects on the skin. They oxidize cellular components and promote the expression of genes that accelerate aging. Most notably, collagen-producing fibroblasts become less prevalent while matrix metallo-proteinases (MMP's) become more prevalent. There is also an indirect but significant pathway triggered from pro-inflammatory cytokines.²

These pathways act in concert to create dramatic and rapid clinical changes in the skin. Most superficial skin care brands are woefully inadequate to produce significant and lasting transformation.



Cosmeceuticals use proven ingredients and avoid hype

Probably the most confusing aspect of recommending skin care is keeping up with all of the new products. There are endless fads and marketing campaigns that are enticing for both consumers and professionals. The best way to maintain consistent results with your patients is to stick to a few ingredients or formulas that can be trusted to bring results for your patients.

The following two ingredients have been utilized for decades and have numerous clinical studies that prove their effectiveness.

Retinoids at night

These Vitamin A derivatives are the most important and arguably most effective ingredients for photo-aging. They have been proven over a period of decades to make histological changes in aging skin and ameliorate common signs of aging.⁴

There are other cosmetic forms of retinoids that have demonstrated efficacy with less incidence of side effects. The most notable form is retinol.

Tucker-Samaras et al. conducted a double blind, randomized study comparing stabilized 0.1% retinol moisturizer to a vehicle control. A total of 64 patients were randomized and applied the product to a designated half side of the face. After 8 weeks of use, the retinol group experienced a significant improvement in wrinkles, pigmentation, elasticity, and firmness.⁵

Other clinical studies point to similar efficacy and low side effect potential with concentrations ranging from 0.1% to 0.4%.^{6,7}

Vitamin C in a daytime moisturizer

Topical vitamin C is an important ingredient for maintaining healthy and vibrant looking skin. It has several biological functions in skin tissue that are vital for skin cell protection and dermal rejuvenation.

L-ascorbic acid is the skin's most important aqueous phase anti-oxidant. It is a scavenger of radical oxygen species (ROS) and an essential enzymatic cofactor in collagen synthesis.⁸ There is evidence that it also suppresses the expression of nuclear factor kappa beta (NFkB), a factor involved in the pro-inflammatory cytokine cascade.⁹

The downside of L-ascorbic acid is extreme instability due to oxidation. Other stable derivatives of Vitamin C are often used, such as lipid-soluble Tetrahexyldecyl Ascorbate and Ethyl Ascorbic acid.

The amazing clinical benefit of Vitamin C is demonstrated in several clinical studies.

Humbert et al. performed a study of topical Vitamin C 5% in postmenopausal women. As with retinoids, Vitamin C displayed significant histological and clinical improvements in photo-aged skin after 6 months of use. An increase in mRNA of procollagen I and III was observed as well as a decrease in matrix metallo-proteinase-I (MMP-I).⁹

Fitzpatrick et al. studied a combination of Tetrahexyldecyl Ascorbate 7% with L-ascorbic acid 10% in a double-blind, half-face trial for 12 weeks. Researchers found the treatment side had a statistically significant improvement in overall facial appearance at the end of the trial.¹⁰

Based on guidance from clinical evidence, Vitamin C should be formulated with a potency of 5-15%.

The most powerful proof for good skin care

Explaining the science and ingredients to your patients is important, but there is one piece of evidence that outweighs all others and that is your own personal testimony.

Most patients will inevitably ask, "What do you use for your own skin?"

If products are good enough to recommend, they should be good enough for your own skin as well. Become a firm believer in your skin care regimens through personal experience. You will be surprised at how much credibility that will provide to your patients.

In my experience, almost all BHRT practitioners who have successfully integrated skin care in their practice have started with themselves. The wellness industry should champion results over marketing hype, and speaking from experience is one of the most powerful ways to do that.

Lastly, ask your patients about skin care during their wellness consultation. Educate them on the biological process of skin aging and what they can do about it. The 60 year-old patient does not desire to look 30 again, but she does want to look vibrant in every phase of life, including menopause.

Integrating anti-aging skin care should not be considered an issue of mere aesthetics, but a justified extension of the holistic approach to wellness.

References

1. Cray, Davus. "Boomers will be pumping billions into anti-aging industry." *Huffington Post* (2011).
2. Rigel, Darrell S., et al., eds. *Photoaging*. CRC Press, 2004. p 3-8
3. Gilchrist BA, Krutmann J. *Skin aging*. Heidelberg: Springer; 2006. p 125-7
4. Weiss, J.S., et al. (1988). Topical tretinoin improves photoaged skin. A double-blind vehicle controlled study. *JAMA*, 259(4), 527-532.
5. Tucker-Samaras, Samantha, et al. "A stabilized 0.1% retinol facial moisturizer improves the appearance of photodamaged skin in an eight-week, double-blind, vehicle-controlled study." *J Drugs Dermatol* 8.10 (2009): 932-936.
6. Bellemere, G., et al. "Antiaging action of retinol: from molecular to clinical." *Skin pharmacology and physiology* 22.4 (2009): 200-209.
7. Kafi, Reza, et al. "Improvement of naturally aged skin with vitamin a (retinol)." *Archives of Dermatology* 143.5 (2007): 606-612.
8. Dayan, Nava. *Skin aging handbook: an integrated approach to biochemistry and product development*. William Andrew, 2008. p151-153
9. Carcamo, J.M., A. Pedraza, O. Borquez-Ojeda, and D.S. Golde. "Vitamin C suppresses TNF alpha-induced NF kappa B activation by inhibiting I Kappa B alpha phosphorylation." *Biochem* 41:12995-30002, 2002.
10. Humbert, Philippe G., et al. "Topical ascorbic acid on photoaged skin. Clinical, topographical and ultrastructural evaluation: double-blind study vs. placebo." *Experimental dermatology* 12.3 (2003): 237-244.
11. Fitzpatrick, Richard E., and Elizabeth F. Rostan. "Double-Blind, Half-Face Study Comparing Topical Vitamin C and Vehicle for Rejuvenation of Photodamage." *Dermatologic surgery* 28.3 (2002): 231-236.

About the Author

Rick Rhoads, Pharm.D. is a compounding pharmacist at University Compounding Pharmacy and the founder of BioRenew Skincare Inc. He has been helping doctors provide better skin care and boost revenues for the past 5 years.

Rick Rhoads, Pharm.D.
(619) 238-9507 • rick@biorenewskincare.com

Healthy Aging Therapeutics Symposium at Harvard Medical School

September 20-21, 2014

Joseph B. Martin Conference Center

77 Avenue Louis Pasteur, Boston, MA 02115

Keynote Presenters



Christoph
Westphal, MD, PhD



Leonard
Guarante, PhD



David
Sinclair, PhD

Course Description

Join some of the most distinguished healthy aging experts from academia, alongside the people who help turn discoveries into therapies-biotech entrepreneurs, and highly specialized physicians-for our two-day, high-energy, uniquely interactive meeting at Harvard Medical School where networking and discussion take center stage.

Topics will include:

- Therapies based on sirtuin biology
- Neuroplastic Change
- Dyslipidemic-induced vascular disease
- Adult stem cell maintenance
- Understanding the Biochemical mechanism, physiological effects & safety of Synthetic Sirtuin-Activating Compounds

Suggested Hotel:

Sheraton Boston Hotel

39 Dalton Street

Boston, MA 02199

617.236.2000

www.sheratonbostonhotel.com



Faculty to Include



David
Perlmutter, MD



Michael
Schmidt, PhD



Mark
Houston, MD



Mark
Rosenberg, MD

Angela
HDL, Inc. Clinical
Health Consultant

I don't
just prevent
heart disease.
I reverse it.



Traditional cholesterol testing is no longer enough.

That's why physicians around the country are choosing advanced cardiovascular testing and health consulting from Health Diagnostic Laboratory, Inc. for their patients. Uncovering hidden risk factors in 76% of Americans with optimal cholesterol levels, HDL, Inc. detects potential disease risk early, then pairs patients with one of our Clinical Health Consultants at no extra charge to help stop and reverse the path to heart disease – improving and saving lives in the process.

Go beyond disease diagnosis.

HealthDiagnosticLaboratoryInc.
beyond disease diagnosis

Sex Steroid Measurements in Different Body Fluids following Topical Hormone Delivery

By David Zava, PhD

Introduction

When steroid hormones are applied to the skin in a cream or gel, some body fluids (saliva and capillary blood) reveal striking and high uptake of the hormone, while others (serum and urine) show little to no hormone uptake⁽¹⁻⁵⁾. This holds true for all estrogens, progestogens, and androgens delivered topically. While this is widely recognized by practitioners who use topical hormones, few attempts to explain this odd paradox have been offered until recently⁽¹⁻³⁾, other than to say the hormone absorbs poorly through the skin.

Endogenous Sex Hormone Production and Levels in Serum, Capillary Blood, Saliva and Urine

To better understand why topically delivered hormones show up in saliva and capillary blood, but proportionately much less in serum or urine, it is important to appreciate first how the sex-steroids distribute into these four body fluids (venous serum, urine, saliva, fingertip capillary blood) when they are produced endogenously.

In premenopausal women at the peak of their reproductive years the ovaries produce about 100-200 μ g of estradiol, 10-30 mg of progesterone, and 0.25-0.5 mg of testosterone during the peak of the luteal phase⁽⁶⁾. This results in a serum or capillary blood level of about 70-150 pg/ml of estradiol, 10-30 ng/mL (10,000-30,000 pg/mL) of progesterone, and 20-100 ng/dL of testosterone. The optimal Pg/E2 ratio in both saliva and serum is about 100-300 when estradiol

is within optimal physiological range (see Table 1). Venipuncture serum and capillary whole blood levels obtained by finger stick are near identical when the sex hormones are produced endogenously⁽⁷⁾.

Salivary estradiol, progesterone, and testosterone levels are about 1-2% of the serum values, with luteal estradiol in the 1.5-3 pg/mL range, progesterone in the 100-300 pg/mL range and testosterone about 20-50 pg/mL (ZRT Laboratory data). The optimal Pg/E2 ratio in saliva is about 100-300, which is about the same ratio as that seen in serum and capillary blood, when estradiol levels are in the normal range during the mid-luteal phase of the menstrual cycle.

Analysis of urinary steroid metabolites in our laboratory, using gas chromatography/tandem mass spectrometry (GC-MS/MS), reveals that the urinary estradiol and progesterone metabolites peak during the luteal phase, following the pattern of endogenous hormone production reflected in serum, capillary blood, and saliva levels (see Figures 1 and 2). The ratio of PgDiol/E2 metabolites can vary somewhat (optimally between about 900:1 and 3000:1), which is higher than the ratios seen in saliva and blood (serum and capillary).

Table 1. Expected premenopausal luteal phase blood levels of estradiol and progesterone, and their ratio.

	Capillary blood spot - ZRT Reference Range values	Williams Textbook of Endocrinology, 10th Ed, 2002	Mosby's Diagnostic and Laboratory Test Reference, Eds: Pagana KD and Pagana TJ, 7th Ed, 2004	Sitruk-Ware R, et al. Obstet Gynecol. 1979;53:457-60.
Estradiol (pg/mL)	43-180	-	30-450	43-280
Progesterone (ng/mL)	3.3-22.5	2.0-20	3.0-25	3-24
Pg/E2 ratio*	100-225	-	100-250	100-240

*Based on optimal estradiol median levels during the luteal phase of 100 pg/mL and optimal progesterone at 10 ng/mL to the high end of the range.

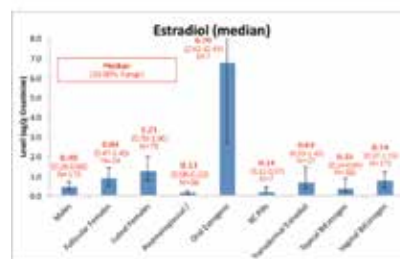


Figure 1. GC-MS/MS Urinary estradiol levels in premenopausal women at different phases of the menstrual cycle and on hormonal contraceptives, and in postmenopausal women supplementing with topical, vaginal, and oral estrogens.

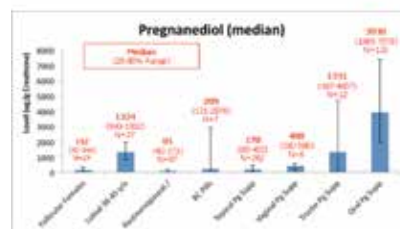


Figure 2. GC-MS/MS urinary pregnanediol levels in premenopausal women at different phases of the menstrual cycle and on hormonal contraceptives, and in postmenopausal women supplementing with topical, vaginal, and oral progesterone.

Topical Dosing with Physiological Levels of Sex Hormones

When sex hormones are delivered topically as a bolus dose, their levels rise dramatically and peak within about 3-6 hrs in saliva and capillary whole blood derived from the finger⁽¹⁾. The level of increase is directly proportional to the dose. Figures 3 and 4 are examples of salivary and blood spot testosterone values following different topical doses of testosterone, and Figure 5 shows salivary estradiol levels after different topical doses of estradiol. Once the peak is reached the level of supplemented hormone in these body fluids begins to decline and reaches baseline about 36-48 hrs after dosing, but this depends on individual differences in metabolism and clearance. Ranges generally are established on values at 12-24 hrs following hormone supplementation, as it is more convenient for the patient to collect a sample first thing in the morning following

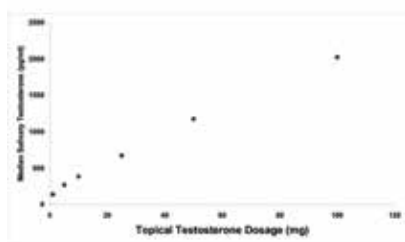


Figure 3. Median salivary testosterone 24 hours after different dosages of topical testosterone (n = 328).

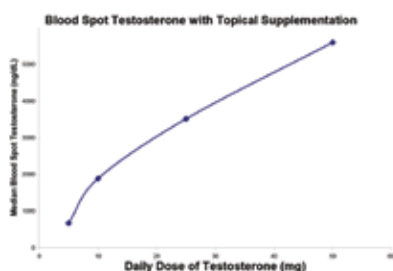


Figure 4. Median capillary blood spot testosterone following different dosages of topical testosterone.

a morning and/or night hormone dose the previous day. This also provides a more accurate representation of steady state levels, as earlier time points may be subject to erratic fluctuations as levels stabilize depending on the application site. With physiological dosing, salivary hormones increase within about 3-6 hrs to supraphysiological/pharmacological levels, while steady-state values are achieved at 12-24 hrs. For example, 30 mg topical progesterone, which represents the peak luteal daily production of progesterone, results in salivary progesterone levels ranging from about 500-3000 pg/mL at 12-24 hrs after application, but up to 10 times higher levels at shorter time intervals of 3-6 hrs⁽¹⁾; physiological luteal phase salivary progesterone levels, however, are only about 50-300 pg/mL. This has created quite a lot of confusion because physiological dosing (i.e. the same amount of hormone as that released from the

ovaries on a daily basis) results in a 10-fold higher hormone range in saliva, but very little increase in serum progesterone^(1-4,8). Because physiological topical dosing with 15-30 mg of progesterone has been shown in numerous studies to be clinically effective without causing adverse side effects in most individuals⁽⁹⁻¹¹⁾, the saliva range for topically delivered progesterone is clinically more relevant when it is reset 10x higher; otherwise, practitioners may assume the dosing is excessive, and reduce dose to an amount that is less likely to be clinically effective. Some saliva testing labs have failed to recognize this issue and opt to just have the patient not use the topical hormone for more than three days before testing. This is problematic since it only reassesses near-baseline levels and is not truly representative of either supplemented or baseline saliva levels during active dosing.

Data from ZRT Laboratory show that, like saliva, capillary blood levels of topically delivered hormones peak at about 3-6 hrs, reach a more steady-state from about 8-24 hr, and levels are directly proportional to dosing⁽¹⁾. Unlike saliva, however, a physiological dosing (e.g. 15-30 mg of topical progesterone) generally results in a physiological level of progesterone in capillary blood (about 20-40

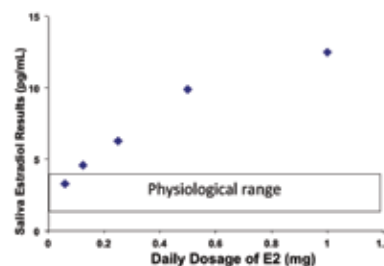


Figure 5. Saliva estradiol levels with increasing topical dosages (n = 3173).

ng/mL), which is well within the optimal range known to protect against the cell proliferation-promoting effects of estrogens in target tissues such as the breasts and uterus⁽⁹⁻¹¹⁾.

In sharp contrast to the dramatic increase in progesterone seen in saliva and capillary blood following 30 mg of topical progesterone, serum levels of progesterone rise only to about 1-3 ng/mL^(1,5,8), which is much lower than luteal range. For those practitioners accepting serum values as representative of systemic tissue levels, the 1-3 ng/mL results from serum testing have been interpreted to mean that progesterone is poorly absorbed and not capable of achieving levels that counter the growth-promoting effects of estrogens in the uterus and breasts⁽⁴⁾. Topical dosing with progesterone even in the pharmacological 50-300 mg range does not raise serum progesterone to luteal levels⁽¹⁾. This is true also for topically delivered estrogens⁽¹²⁾, progestogens⁽⁵⁾, and androgens⁽¹³⁾ and has, unfortunately, resulted in the use of very high topical dosing in an attempt to raise serum levels to a physiological range. This rarely, if ever, happens with topical delivery of sex-hormones⁽¹⁾.

Overall, what is seen with physiological topical dosing of all sex steroids in various combinations of compounded and FDA-approved hormone creams and gels is that the serum levels are much lower

than the levels seen in capillary blood or saliva. This paradox has been difficult to reconcile because venous and capillary blood levels of sex steroids are near-identical when produced endogenously, or delivered as a troche, i.m./s.c. injection, or s.c. pellet, but are remarkably different (as much as 100-fold with topical progesterone) when estrogens, progestogens, and androgens are delivered topically. Clearly, something is uniquely different about the way topically applied hormones absorb through the skin and reach tissues systemically⁽¹⁻³⁾.

Because salivary and capillary blood levels of progesterone and other steroids delivered topically increase so dramatically relative to serum, the obvious question to ask is why and how this happens, and are tissues other than the salivary gland and capillary beds of the finger-tip exposed to the higher levels of hormones?

Based solely on serum testing one would surmise that progesterone is poorly absorbed and, not having reached physiological luteal levels, would be ineffective for countering the growth-promoting effects of estrogens on target tissues such as the breast and uterus. On the other hand, capillary blood progesterone results show that progesterone is very efficiently absorbed and achieves luteal levels that effectively counter estrogen stimulation. In fact, studies with breast biopsies of women using physiological topical progesterone

pellets. As I discussed in more detail in the first part of this series, oral progesterone at doses of 100-300 mg (10x physiological) results in very high levels of urinary progesterone metabolites (e.g. pregnanediol) at levels much higher than that seen during the luteal phase of the menstrual cycle, when the ovaries produce about 10-30 mg of progesterone daily (*Figure 2*). Because 100-300 mg of oral progesterone is necessary for an optimal clinical effect, and raises urine pregnanediol higher than luteal range, it is also necessary to reset the expected optimal urinary pregnanediol range to a higher value to avoid confusion and potential under-dosing to achieve an endogenous luteal pregnanediol range. In fact, ranges should be reset for all orally delivered hormones, particularly estrogens like conjugated estrogens, estradiol (*see Figure 1*), and estriol, which are commonly used as oral replacement therapies.

In summary, serum and urine testing for topically delivered hormones grossly underestimate systemic delivery of hormones to target tissues and should be used with caution when designing appropriate dosing for optimal clinical response. As shown in Table 2, all body fluids (serum, saliva, capillary blood spot, urine) can be used to assess accurately endogenous hormone levels and exogenous hormone therapy, with the exception of the topical preparations listed.

References

1. Du JY, Sanchez P, Kim L, Azen CG, Zava DT, Stanczyk FZ. Percutaneous progesterone delivery via cream or gel application in postmenopausal women: a randomized cross-over study of progesterone levels in serum, whole blood, saliva, and capillary blood. *Menopause* 2013;20:1169-1175.
2. Zava DT, Groves MN, Stanczyk FZ. Editorial: Percutaneous absorption of progesterone. *Maturitas* 2014;77:91-92.
3. Zava DT. The trouble with topical progesterone and testing. *Townsend Letter* 2014; January.
4. Lewis JG, McGill H, Patton VM, Elder PA. Caution on the use of saliva measurements to monitor absorption of progesterone from transdermal creams in postmenopausal women. *Maturitas* 2002;41:1-6.
5. O'Leary P, Feddema P, Chan K, Taranto M, Smith M, Evans S. Salivary, but not serum or urinary levels of progesterone are elevated after topical application of progesterone cream to pre-and postmenopausal women. *Clin Endocrinol (Oxf)*. 2000;53:615-20.
6. Faigle JW, Schenkel L. Pharmacokinetics of estrogens and progestogens, Chapter 25. In: *Estrogens and Progestogens in Clinical Practice*. Ed: Fraser et al. Churchill/Livingstone, 1998.
7. Edelman A, Stouffer R, Zava DT, Jensen JT. A comparison of blood spot vs. plasma analysis of gonadotropin and ovarian steroid hormone levels in reproductive-age women. *Fertil Steril* 2007;88:1404-7.
8. Burry KA, Patton PE, Hermesmyer K. Percutaneous absorption of progesterone in postmenopausal women treated with transdermal estrogen. *Am J Obstet Gynecol*. 1999;180:1504-11.
9. Leonetti HB, Landes J, Steinberg D, Anasti JN. Transdermal progesterone cream as an alternative progestin in hormone therapy. *Altern Ther Health Med* 2005;11:36-8.
10. Chang KJ, Lee TT, Linares-Cruz G, Fournier S, de Lignieres B. Influences of percutaneous administration of estradiol and progesterone on human breast epithelial cell cycle in vivo. *Fertil Steril* 1995;63:785-91.
11. De Boever J, Verheugen C, Van Maele G, Vandekerckhove D. Steroid concentrations in serum, glandular breast tissue, and breast cyst fluid of control and progesterone-treated patients. In: Angeli A, editor. *Endocrinology of Cystic Breast Disease*, New York: Raven Press; 1983. p. 93-9.
12. Brennan JJ, Lu Z, Whitman M, Stafiniak P, van der Hoop RG. Serum concentrations of 17beta-estradiol and estrone after multiple-dose administration of percutaneous estradiol gel in symptomatic menopausal women. *Ther Drug Monit*. 2001;23:134-8.
13. Singh AB, Lee ML, Sinha-Hikim I, Kushnir M, Meikle W, Rockwood A, Afework S, Bhasin S. Pharmacokinetics of a testosterone gel in healthy postmenopausal women. *J Clin Endocrinol Metab*. 2006;91:136-44.
14. Zava DT. Testosterone: elixir or dangerous drug? Available at: <http://www.zrtlab.com/blog/entry/testosterone-elixir-or-dangerous-drug> [accessed 3/12/14].

Table 2. A guide to steroid hormone testing in different body fluids, without hormone supplementation and following different routes of hormone administration.

Body fluid tested	Endogenous steroids – no supplementation	Oral steroids	Topical steroids	Vaginal steroids	Troche/sub-lingual steroids	Pellet/intra-muscular steroids
Serum	Yes	Yes ¹	No ²	No ²	Yes	Yes
Saliva	Yes	Yes ³	Yes ³	Yes	No ⁴	Yes
Urine	Yes	Yes ¹	No ²	No ⁵	No ²	Yes ¹
Capillary blood	Yes	Yes	Yes ⁶	Yes	Yes	Yes

Notes:

1. Overestimation: metabolites interfere with immunoassays.
2. Underestimation: hormone levels not reflective of tissue uptake.
3. Overestimation: requires range adjustment.
4. Overestimation: direct contamination of oral mucosa/saliva.
5. Overestimation: direct contamination of urine.
6. Overestimation: if fingertips contaminated with topical hormones.

dosing (25-50 mg) show that high luteal progesterone levels are indeed achieved and estrogen-stimulated cell proliferation is inhibited^(10,11), without a significant increase in serum progesterone levels. **These findings concur with what we and others have observed that serum is not an appropriate body fluid to assess the clinical utility of topically delivered sex-hormones and that this has likely resulted in overdosing in an attempt to achieve physiological serum levels of hormones⁽¹⁴⁾.**

In developing urine testing of steroid hormones by GC-MS/MS at ZRT Laboratory it became apparent that the problems with detecting topically delivered hormones in serum also applied to urine. Topically applied sex hormones, while dramatically increasing hormone levels in saliva and capillary blood, raise levels of the urine metabolites of these hormones very little (*see Figures 1 and 2*). We find this true for all steroids delivered topically and vaginally, but not those produced endogenously or used as a troche/sublingually, i.m./s.c. injections, or



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

23rd ANNUAL WORLD CONGRESS ON ANTI-AGING, REGENERATIVE & AESTHETIC MEDICINE



Leading Change, Advancing Health

**Ask Us
About Special
Pricing**

AVAILABLE THIS WEEKEND ONLY!

Join us in South Florida!

MAY 7-9, 2015

THE WESTIN DIPLOMAT RESORT & SPA • HOLLYWOOD, FL

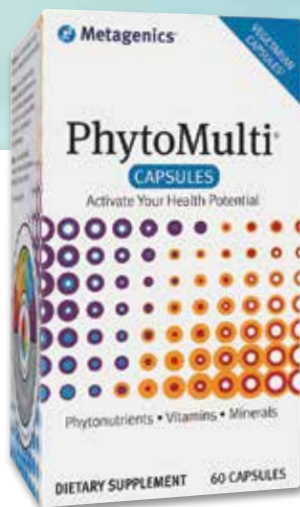
FOR EARLY-BIRD REGISTRATION, VISIT www.A4M.com
OR CALL AN A4M EDUCATIONAL ADVISOR TODAY AT 1.888.997.0112

Visit us at
A4M Booth 423

A Breakthrough in Healthy Aging

PhytoMulti® "The Smart Multi"

- Defends cells from free radical damage and oxidative stress*
- Recharges cellular health*
- Nourishes cells with a complex array of phytonutrients*



New, easier-to-swallow vegetarian capsules available for PhytoMulti without iron.[†] Or try PhytoMulti tablets with or without iron.

Activate Health Potential

PhytoMulti is an entirely new class of daily foundation supplementation designed to help defy aging. It's the only multi providing a research-based, broad spectrum of phytonutrients and plant extracts scientifically tested for antioxidant protection and DNA stability potential.[†] With PhytoMulti, provide your patients a solution that supports healthy aging unlike any other daily multivitamin.*

* These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

[†]Validated by Total ORAC_{FL} (oxygen radical absorbance capacity) and Comet assays.

[‡]Capsules are composed of plant-derived ingredients. Not all contents inside the capsule are vegetarian.

Order Today!

Call: 800 692 9400

Open an Account

metagenics.com/newaccount

Learn More

PhytoMulti.com

 **Metagenics®**

Genetic Potential Through Nutrition



Breakthrough
Science



Nutrigenomic
Based Products



FirstLine
Therapy®



Unsurpassed
Quality



**The Metagenics
Difference**



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

JOIN A4M TODAY!

Enjoy the exclusive benefits that come with being an A4M member!

- Framed Membership Certificate
- Discounts on Conferences & Education
- Directory listing on A4M.com
- Monthly E-Newsletter
- Medical Legal Defense Program
- Access to an A4M Educational Advisor



A4M Educational Advisors guide the practitioner through their A4M education, discussing event opportunities and options to become Board Certified and Fellowship trained.

JOIN ONLINE OR CALL YOUR A4M EDUCATIONAL ADVISOR TODAY!



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Fellowship in Anti-Aging & Regenerative Medicine (FAARM)



● Why The Fellowship is right for you

The Fellowship is a place to rediscover your passion for patient care. It allows you to continue caring for your patients while learning the most current and relevant integrative approaches for the prevention and treatment of disease. You can immediately begin to incorporate what you learn into your medical practice.

● What you will learn

The Fellowship is an interactive educational experience with modular training that includes hands on clinical training and web broadcasts, that will teach you the knowledge and skills you need to effectively practice anti-aging, regenerative and functional medicine. This elite Fellowship comprises the latest findings in areas of endocrinology, cardiology, neurology, cancer therapies, nutrition and much more.

● Who should attend?

The Fellowship program is open to physicians, PhD's, physician assistants, nurse clinicians, pharmacists, nurse practitioners, nutritionists, chiropractors, Bachelor of Medicine, Bachelor of Surgery, DDS's and more.

● Fellowship Awards

Fellow in Anti-Aging and Regenerative Medicine (FAARM)

- Modules I – V are required
- Webcast required
- A4M Board Certification
- A4M Membership

Fellow in Anti-Aging, Regenerative and Functional Medicine (FAARFM)

- Modules I – VIII
- Webcasts required
- A4M Board Certification
- A4M Membership

University of South Florida Master's Degree Requirements

- Module I – VIII
- Two (2) Elective Modules
- Webcasts Required
- A4M Board Certification
- A4M Membership
- Ten (10) Courses with USF
- One (1) Ethics Course with USF

Additional Program Information

- Modules do not need to be completed in numerical order
- Each live module has been approved for 24 AMA PRA Category 1 Credits except Module V (no CME offered)
- CME Credits are not available for online modules

FOR MORE INFORMATION PLEASE CALL 888.997.0112
info@A4M.com • www.A4M.com • THE FUTURE OF MEDICINE TODAY



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE



Fellowship Modules



• The Fellowship in Anti-Aging & Regenerative Medicine (FAARM) •

Module I*	A Metabolic, Anti-Aging and Functional Approach to Endocrinology
Module II	A Metabolic, Anti-Aging and Functional Approach to the Treatment of Hypertension, Diabetes, Coronary Artery Disease and Metabolic Syndrome
Module III	A Metabolic, Anti-Aging and Functional Approach to Gastroenterology, Neurotransmitters, and Neurology
Module IV	A Metabolic and Anti-Aging Approach to Amino Acid and Fatty Acid Metabolism, Drug Induced Nutrient Depletion, Stem Cells and Regenerative Medicine, Spirituality and Osteoporosis
Module V	Clinical Intensives (Non-CME)

• The Fellowship in Anti-Aging, Regenerative & Functional Medicine (FAARFM) •

Module VI	Herbology and The Functional Regenerative Matrix
Module VII	Mitochondriopathy, Heavy Metal Toxicities, A Metabolic, Anti-Aging and Functional Approach to Autoimmune Diseases, Cognition Enhancement and Fatigue
Module VIII	A Metabolic, Anti-Aging and Functional Approach to Psychiatry and Cancer Therapies, Nutrition and the Athlete, A Metabolic and Functional Approach to Laboratory Evaluations Electives

• ELECTIVES •

Module IX	A Metabolic and Functional Approach to Children's Health
Module X	Homeopathic Applications to Metabolic Medicine
Module XI	IV Therapies
Module XII	Toxic Metals and Functional Toxicology
Module XIII	A Metabolic Approach to Pain Management
Module XIV*	Individualized Weight Management For The Patient
Module XV*	Brain Fitness & Memory Maintenance
Module XVI*	Advanced Integrative and Metabolic Cardiovascular Medicine
Module XVII	Medical Acupuncture for the Integrative Physician/Practitioner
Module XVIII	Integrative Neuropsychiatry
Module XIX*	Sports Medicine & Nutrition
Module XX	Metabolic Code Triad Training
Module XXI	Advanced Auto-Immune Therapies
Module XXII	Genomics & Proteomics
Module XXIII*	Lifestyle Health Coaching
Module XXIV	The Nuts and Bolts of Writing Prescriptions for Compounded Medications: The Ultimate in Personalized Medicine
Module XXV	Addiction

NEW for 2014!

*Indicates a 4 Part Certification Program in that desired area of specialty

FOR MORE INFORMATION PLEASE CALL 888.997.0112
info@A4M.com • www.A4M.com • THE FUTURE OF MEDICINE TODAY



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

JOIN THOUSANDS OF DOCTORS WORLDWIDE & BECOME A4M FELLOWSHIP TRAINED TODAY!



LEARN

A4M offers a variety of Fellowships created to equip doctors and other healthcare providers with extensive knowledge, best practices and tools to put to work immediately, while offering their patients cutting edge treatment.



The Fellowship in Anti-Aging, Regenerative & Functional Medicine (FAARFM)

A4M's longest standing and most popular Fellowship program to learn preventative and Anti-Aging protocols such as BHRT and nutritional therapies.



Affiliated with
The University of South
Florida School of Medicine



The Fellowship in Integrative Cancer Therapies (ICT)

The essential Fellowship program to start improving your cancer patient's quality of life and survival rates through integrative therapies.

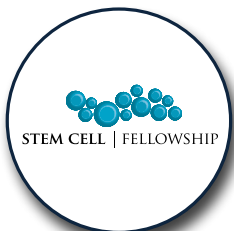


Affiliated with
The University of South
Florida School of Medicine



The Aesthetic Anti-Aging Fellowship

The only clinical-based Fellowship with a hands-on component to learn and practice the latest minimally invasive aesthetic procedures for facial and body enhancements.



The Stem Cell Fellowship

The avant-garde Fellowship to start practicing the medicine of the future today through evidence-based stem cell protocols.

FOR MORE INFORMATION PLEASE CALL 888.997.0112

info@A4M.com • www.A4M.com • THE FUTURE OF MEDICINE TODAY



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Can't make it to a live event?

Experience A4M Education in the comfort of your own home or office!

Complete one of A4M's many integrative Fellowships Online:

- **The Fellowship in Anti-Aging, Regenerative and Functional Medicine**
FAARM Modules I – VIII (Excluding module V, which is only offered live)
- **The Fellowship in Integrative Cancer Therapy**
Modules I-VIII
- **The Stem Cell Fellowship**
Modules I-IV
- **The Aesthetic Anti-Aging Fellowship**
Modules I-III

Additional A4M Certification Programs Available:

- **Advanced Metabolic Endocrinology**
- **Weight Management Certification**
- **Brain Fitness Certification**
- **Cardiovascular Certification**
- **Sports Medicine Certification**
- **Lifestyle Coaching Certification**
- **Sexual Health and Treatment**



Why should I take the modules online?

- Enjoy easy to use online video sessions.
- Save money and time by avoiding unnecessary travel.
- Review extensive clinical case studies.
- Learn from the same experts and study the same material as our live Fellowship modules.
- Complete Fellowship modules from the convenience of your home or office.
- View module topics in any order you choose.

For more information on the online education offered by A4M, visit www.A4M.com or call 1.888.997.0112 to speak to an educational advisor today.



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE



Certification Programs



Join the elite group of physicians and other healthcare providers that are certified by the University of South Florida College of Medicine in these important fields. The courses are offered by the American Academy of Anti-Aging Medicine across the country and are designed for a busy healthcare practitioner to easily complete.

• Advanced Metabolic Endocrinology Certification •

This program will discuss various areas of hormonal imbalances in men and women including advanced topics in adrenal health, breast health, estrogen metabolism, late life hypogonadism and prostate cancer.

Fellowship Module I, A – D

- Module A Functional Overview of Hormonal Changes that Manifest in Men and Women with Aging
- Module B Advanced Hormonal Prescribing and Herbal Therapies for Women
- Module C Advanced Insulin Therapies and Hormones/Botanicals and Pregnancy
- Module D Men's Health and Advanced Compounding for Hormonal Treatments

• Weight Management Certification •

In this program you will learn the unique relationship between adrenal dysfunction stress with hormonal imbalance and weight gain plus weight loss plateaus. Participants will recognize and understand the prevalence of adult obesity and the risk factors involved and understand the bio-chemistry of how the body breaks down proteins, fats and carbohydrates.

Fellowship Module XIV, A – D

- Module A Individualized Weight Management for the Patient
- Module B Comprehensive Weight Loss for the Integrative Physician
- Module C Weight Management
- Module D Brain Directed Weight Loss

• Brain Fitness Certification •

One of the major medical issues that will affect all of our patients is how to maintain memory throughout their life. The Brain Fitness Modules XV: A-D are a group of four modules that will give you new skills to help patients prevent memory loss along with treat patients who already have cognitive decline.

Fellowship Module XV, A – D

- Module A The Basics of Brain Fitness and Memory Maintenance
- Module B How the Brain Learns and Metabolism of the Brain
- Module C Dementia Disorders: A Practical Guide for Clinicians
- Module D Brain Fitness Therapies

FOR MORE INFORMATION PLEASE CALL 888.997.0112

info@A4M.com • www.A4M.com • THE FUTURE OF MEDICINE TODAY



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE



Certification Programs



• Metabolic Cardiovascular Certification •

The modules will start with basic teaching of vascular biology concepts and how this relates to vascular disease. Vascular aging pathophysiology, diagnosis, prevention and treatment will be reviewed as well. Dyslipidemia will be defined based on new basic science and clinical research. Inflammation, oxidative stress, the role for expanded lipid profiles using LDL and HDL particle size and number are reviewed in the context of the pathophysiology of vascular damage. Proper analysis of CV risk factors, mediators and CV risk scoring will be taught using the COSEHC risk analysis methods. Review of CVD labs and noninvasive CV tests will be reviewed. The role of heavy metals in CVD will be extensively reviewed based on a functional medicine model.

Fellowship Module XVI, A – D

- Module A How to Apply Nutrition, Exercise and Weight Management Programs Related to Vascular Biology
- Module B Components of Cardiovascular Disease
- Module C Nutritional and Dietary Therapies for Prevention and Treatment of Cardiovascular Disease
- Module D Various Conditions in Cardiovascular Disease

• Sports Medicine Certification •

This certification program focuses on the “science of eating,” including diet programs, recipes and nutrients that help athletes reach peak performance and success. Factors that hinder such success are also reviewed. The program discusses the body’s physiological response to exercise, treatments for sports-related conditions, biometrics, eating disorders, the aging athlete and psychology.

Fellowship Module XIX, A – D

- Module A The Body’s Physiological Response to Exercise
- Module B Treatments for Sports-Related Conditions
- Module C Biometrics and Eating Disorders
- Module D The Aging Athlete and Psychology

• Lifestyle Coaching Certification •

The Certification in Lifestyle Coaching teaches the healthcare practitioner how to properly administer information that will positively impact clinical outcomes and improve the overall standard of care. The client needs to live a healthy lifestyle and this course teaches you how to teach your client the proper steps. It’s about setting up your clients to succeed.

Fellowship Module XXIII, A – D

- Module A Wellness Revolution and How You Can Become a Part of the Solution
- Module B Basic Nutrition
- Module C Fundamentals of a Co-Active Coaching Model
- Module D Counseling the Patient and Improving Energy

• Certification Requirements •

- Completion of FAARFM Certification Modules
- A4M Board Certification *(where applicable)
- Completion of corresponding USF Courses
- American Academy of Anti-Aging Medicine Membership



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

Fellowship in Integrative Cancer Therapies

The A4M Fellowship in Integrative Cancer Therapies is the most advanced, progressive educational program on treating and preventing both early and advanced stage cancers.

This program will give practitioners the tools necessary to immediately integrate cancer fighting modalities into their practice.

● What you will learn

The Fellowship in Integrative Cancer Therapies consists of ten modules.

Topics include:

- Module I - Cancer Prevention
- Module II - The Biology of Cancer
- Module III - Immunology of Cancer
- Module IV - Targeted Cancer Therapies
- Module V - Case Histories In Cancer Therapies
- Module VI - Integrative Cancer Therapies
- Module VII - Dietary Treatments of Cancer
- Module VIII - Nutritional Integrative Cancer Therapies

● Who should attend the Fellowship?

All healthcare practitioners can benefit from this fellowship. In addition, all healthcare practitioners, regardless of specialty, can practice ICT. Although oncologists are welcome and urged to attend this fellowship, the majority of attendees will be non-oncologists. The Fellowship is open to physicians, physician assistants, nurse clinicians, pharmacists, D.D.S. and chiropractors.

● Completion Requirements

- Modules I – VIII
- Complete the A4M Board Certification
- A4M Membership

● University of South Florida Master's Degree Requirements

- Module I – VIII
- Two (2) Elective Modules
- Webcasts Required
- A4M Board Certification
- A4M Membership
- Ten (10) Courses with USF
- One (1) Ethics Course with USF



NOW ONLINE!

Because this program is in such demand we have added it to our slate of online Fellowships. You can now experience all the benefits of the live program from the comfort of your home or office.

The Aesthetic Anti-Aging Fellowship

The
Aesthetic
AntiAging Fellowship

● What is Aesthetic Medicine?

Aesthetic Medicine is a developing clinical subspecialty and field in scientific research aimed at the use of minimally invasive cosmetic treatments to enhance patients' satisfaction with their physical appearance. This subspecialty is no longer limited to the fields of plastic surgery and dermatology, as many specialties are offering aesthetic medical procedures in order to better accommodate their patients' aesthetic needs. A growing trend among baby boomers is that aesthetic treatments are part of a normal health routine with the goal of maintaining a natural and healthy appearance.

● Why add Aesthetics to your practice?

- There were nearly 10 million surgical and nonsurgical cosmetic procedures performed in 2010. Nonsurgical procedures are represented by 83% of the total.
- Botox was the number one cosmetic procedure performed with 2.8 million procedures, up 157% from 2002.
- U.S. residents make 145 million visits for medical aesthetics procedures each year and that number is expected to triple in the next 10 years.
- The top five nonsurgical cosmetic procedures in 2010 were:
 - Botulinum Toxin A Injections
 - Hyaluronic Acid Injections
 - Laser Hair Removal
 - Laser Skin Resurfacing
 - Chemical Peels

Statistics courtesy of the American Society of Aesthetic Plastic Surgery 2010 Cosmetic Surgery National Data Bank

● What is the Aesthetic Anti-Aging Fellowship?

The Aesthetic Anti-Aging Fellowship is a seven-part series consisting of a three-module didactic series and a three-module hands-on clinical training series. The Aesthetic Anti-Aging Fellowship was created in recognition of the need to establish *best practice* standards in Aesthetic Medicine. The Fellowship enables medical professionals to learn Aesthetic Medicine theory and receive individualized hands-on training in aesthetic procedures to provide superior patient outcomes. The clinical programs provide level 4 CME classification and are accredited by the University of South Florida Office of Professional Development. Practitioners completing the level 4 classification, required and follow-up courses can qualify as competent to perform the procedures without further supervision, in accordance with AMA Guidelines on Continuing Medical Education for new procedures and skills. There are also Advanced Fellow and Master's Fellow designations that can be obtained.

● Why is the Fellowship for you?

The Fellowship is a post-graduate training program which combines online audiovisual lectures and hands-on tutorials in a clinical setting. The Fellowship denotes peer recognition in one of the fastest growing medical specialties. Also, the Fellowship will provide medical practitioners with a maximum exposure to the scientific, clinical and industry information necessary to introduce noninvasive aesthetic procedures in their practice.

● Who should attend the Fellowship?

The Aesthetic Anti-Aging Medicine Fellowship program is open to MD's, DO's, or MBBS individuals. The long-term objective of the Fellowship is to achieve formal sub-specialty recognition and a new status for Aesthetic Medicine.

The Fellowship program is open to those practitioners with an existing knowledge base and experience in the field of aesthetics, as well as those physicians who are new to the specialty. Ability groups will be available during the hands-on sessions to ensure participants are learning the procedures most suited to their current skills.

● Completion Requirements

Completion of modules I-VII (I-III are didactic and available online; IV-VII are hands-on training)

- A4M Membership
- 12 Case Studies:
 - 2 Botox/2 filler (4 for Module IV)
 - 4 laser/light (4 for Module V)
 - 2 chemical peel/2 sclerotherapy (4 for Module VI)
- Completion of the Aesthetics Written Exam

Stem Cell Fellowship



STEM CELL | FELLOWSHIP

● What is Stem Cell Therapy?

New and current Regenerative Medicines can use stem cells to create living and functional tissues to regenerate and repair tissue and organs in the body that are damaged due to age, disease and congenital defects. Stem cells have the power to go to these damaged areas and regenerate new cells and tissues by performing a repair and a renewal process, restoring functionality. Regenerative Medicine has the potential to provide a cure to failing or impaired tissues.

While some believe the therapeutic potential of stem cells has been overstated, an analysis of the potential benefits of stem cell based therapies indicates that 128 million people in the United States alone may benefit with the largest impact on patients with cardiovascular disorders (5.5 million), autoimmune disorders (35 million), and diabetes (16 million U.S. patients and more than 217 million worldwide): U.S. patients with other disorders likely to benefit include osteoporosis (10 million), severe burns (0.3 million), spinal cord injuries (0.25 million).

● What is the Fellowship in Stem Cell Therapy?

The American Academy of Anti-Aging Medicine (A4M) has recognized the need for knowledge on stem cells amongst physicians and healthcare professionals, thus creating the world's first Stem Cell Fellowship program. Stem cell therapies involve the potential replacement of cells or organs that are diseased, injured, infirmed, ailing or aged. In this modular training program, a group of experienced academia's, involved in stem cell transplantation, present a series of topics to cover the general principles and practice of stem cell biology and evidence-based treatments for physicians to optimize the health of their patients.

● Why the Fellowship is right for you

By enrolling in the Fellowship, you will learn how to treat the diseases associated with aging with stem cell therapies - the medicine of the future. After completion of this modular training program, physicians will be able to intelligently decide which stem cell protocols to recommend to their patients. Become a pioneer in stem cells and the future of Regenerative Medicine.

● Who should attend the Fellowship?

The Stem Cell Fellowship program is open to physicians, PhD's, physician assistants, nurse clinicians, pharmacists, nurse practitioners, nutritionist, chiropractors, Bachelor of Medicine, Bachelor of Surgery and more.

● Completion Requirements

- Modules I-V
- Modules I-IV are didactic and available online
- Module V is hands-on training
- Complete A4M Board Certification
- A4M Membership



Sexual Health Certification Program

● Why this certification is right for you

The Sexual Health Certification Program offers healthcare practitioners the opportunity to increase their knowledge and experience for evaluating, diagnosing and treating sexual health disorders in all patients of all ages, genders and sexualities. Topics such as hormone depletion affecting sexual health, sexual dysfunction, issues in gay and transgender patients are covered in this certification program.

● What you will learn

- Module A: Female Sexual Health
- Module B: Male Sexual Health, Gay and Transgender Therapy
- Module C: Impact of Medical and Psychological Conditions on Sexuality
- Module D: Hormones and Sexual Dysfunction plus Sex and Pregnancy

● Who should attend the certification program?

- OB/GYN's, Urologists, Family Practitioners, Nurse Practitioners

PROGRAM NOW AVAILABLE ONLINE!

"I practice Natural Hormone Replacement Therapy at Pill Box Pharmacy in Florida, I see many patients with low libido and sexual problems. After taking the Sexual Health Modules, I became equipped with an enormous amount of knowledge which expanded my professional skills tremendously. I learned different factors and treatments of sexual health, how to speak and ask questions about sensitive issues, and what protocols to use. By practicing what we learn in this module, your patients will come back to you with words like this: "Thank you for saving my marriage", "Thank you for giving my wife/husband back", "I feel great, like I'm 25 again!" and a lot more. I highly recommend this module to all medical doctors and medical practitioners who specialize in hormone replacement therapy or who practice functional medicine." -Angela Pressman, PharmD, CPhT, Diplomate A4M, FAARM, AMMG

For the complete Sexual Health Certification Program schedule, please visit www.A4M.com or call us at 888-997-0112



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

BECOME A4M BOARD CERTIFIED TODAY KNOWLEDGE IS POWER



ABAARM EXAM
MD, DO, MBBS, DPM



ABAAHP EXAM
DC, DDS, ND, RN, LPN, PA,
MA, RPh, NP, PhD and
Acupuncturist

A4M BOARD CERTIFICATION WILL GIVE YOU THE POWER TO:

- **RUN** a successful medical practice as a leading A4M Board Certified professional in your region. The credentials you earn denote recognition in the fastest growing, new high tech medical specialty.
- **TREAT** patients more effectively than traditional medical practitioners. Take an active interest in the science of longevity.
- **DEMONSTRATE** to your patients that you are committed to the prevention of diseases associated with aging. This certification process helps ensure that Metabolic physicians have grasped the essentials relating to the clinical application of Metabolic medical care.

REGISTER NOW!

- | | | | | |
|--|--|--|--|--|
| • August 16-17, 2014
Melbourne, Australia | • September 5-7, 2014
Bangkok, Thailand | • September 10-13, 2014
Phoenix, AZ | • October 17-19, 2014
Bali, Indonesia | • November 2014
Dubai, UAE |
| • December 10-13, 2014
Las Vegas, NV | • February 25, 2015
Los Angeles, CA | • May 6-9, 2015
Hollywood, FL | • September 16-19, 2015
New Orleans, LA | * All exam dates are
subject to change. |

Register online at www.A4M.com or call 888.997.0112

HOP ON OVER TO BOOTH #1023
AND EXPERIENCE THE
MAGIC



Hallandale
P H A R M A C Y



1109 E. Hallandale Beach Blvd. Hallandale Beach, FL 33009
Pharmacy: 954.455.3822 Fax: 954.455.3835
www.hallandalex.com



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

EXHIBITORS DIRECTORY

Product Announcements

59

Exhibitors by category

Aesthetic Medical Treatments

67

Alternative Therapies

68

Compounding Pharmacies

72

Computers / EMR

75

Cosmeceuticals

76

Dermatology

79

Diagnostic Service / Laboratories

79

Hair Rejuvenation

84

Holistic Medicines

84

Hormone Therapies

87

Hyperbaric / Oxygen Therapies

88

Insurance / Finance

88

Marketing

89

Med Spa

90

Medical Equipment / Supplies

90

Miscellaneous

95

Nutraceuticals

96

Stem Cell Therapies

104

Weight Management

105

POWER GREENS PREMIUM

Power Greens® Premium is NuMedica's state-of-the-art, great tasting greens and superfood drink mix, made from the highest quality of fresh fruits & vegetables available, specifically selected for their nutrient-rich properties. It supplies as least 30% of the recommended daily value of vitamins & minerals per serving. It's loaded with energizing phyto-nutrients, certified organic wholefoods & plant extracts. Getting your fruits, vegetables, vitamins & minerals has never tasted so good!

NuMedica LLC

www.numedica.com

800-869-8100



TENSION EASE™

Tension Ease contains a proprietary blend of plant extracts that help provide relief from occasional stress and nervous tension.* The formula features Sensoril, a patented and research-backed extract of *Withania somnifera* that helps increase resistance to stress, tension, and irritability.* The synergistic blend of botanical ingredients supports normal physiological relaxation and promotes a balanced mood.

Vital Nutrients

www.vitalnutrients.com

888-328-9992

GASTROONE™ GUT HEALTH FORMULA

Patient One GastroOne™ supplies comprehensive support for gut health and function. Combining over 10 science-backed ingredients known for their beneficial effect on GI tract health and digestive comfort, GastroOne is an ideal formula for promoting healing of a compromised GI tract. A 3g dose of L-Glutamine is the foundation ingredient for its proven role in promoting normal intestinal permeability and healthy mucosal lining. N-Acetyl-D-Glucosamine, Deglycyrrhizinated Licorice, Aloe vera, Slippery Elm, Marshmallow root, Fenugreek, Mucin, MSM, Chamomile, Ginger, Quercetin, Larch tree and Zinc L-Carnosine provide added support for digestive comfort and immune health. Presented in a pleasant natural strawberry-flavored powder.

Patient One MediNutritionals

www.patientoneformulas.com

631-390-9669



COOLSCULPTING COOLSMOOTH APPLICATOR

Introducing the CoolSmooth applicator, an exciting addition to the CoolSculpting product line! The CoolSmooth applicator is a non-vacuum (flat) applicator that is ideal for treating non-pinchable fat. Its unique conformable design allows the applicator to fit the patient's individual shape.

ZELTIQ

www.coolsculpting.com

925-621-7458



RESPRIN – NEW FORMULA

Now you can breathe even more life into your wellness practice! The new Resprin™ has a stronger blend, offers better value and has 17 certified organic herbs. Our 100% natural proprietary blend is specifically formulated, based on Traditional Chinese Medicine principles, to support respiratory health. Ingredients have been shown to expel naturally occurring phlegm, support the body's natural process of inflammatory response and natural process of detoxification.* Used by adults, children and the elderly.

*These statements have not been evaluated by the Food and Drug administration. This product is not intended to diagnose, treat, cure or prevent any disease.

NuCentury Herbs Inc.

www.resprin.com

877-473-7774

SALERNO ULTRA DAILY ESSENTIALS

Introducing Salerno Ultra Daily Essentials – the complete health solution. From brain, eyes and heart health, the Salerno Ultra Daily Essentials provides fuel to nourish and strengthen your body. Each packet which is 100% protected from light, oxygen and nutrient-robbing moisture, is packed with a full regiment of vitamins, minerals, essential oils, probiotics, and antioxidants for healthy skin, cellular integrity and energy levels. With therapeutic dosages, easy-to-swallow capsules, and cutting-edge packaging, the Salerno Ultra Daily Essentials is the world's strongest all-in-one multivitamin ever made.

The Salerno Center for Complementary Medicine

www.salernovitamins.com

212-582-1700



SKIN VITALITY

The Skin Vitality Profile contains all the tests to identify how hormones affect conditions such as melasma, hirsutism, premature aging and dryness. Many physical changes occur on the skin, so understanding how hormones – or a lack of them – impact skin vitality sheds new light on effective treatments for hormone-deprived patients. Young or old, hormones play a crucial role in skin health – affecting hydration, elasticity, collagen and much more. This profile tests estradiol, Estriol, progesterone, testosterone, DHEA-S, diurnal cortisol, thyroid stimulating hormone and vitamin D. Fasting insulin is available as an add-on.

ZRT Laboratory

www.webaddress.com

503-466-2445

OHB BHRT ASSESSMENT & MANAGEMENT SOFTWARE

Optimum Hormone Balance (OHB) offers web-based patient assessment and management software for use by Integrated Medicine Providers in the process of Bio-Identical Hormone Replacement Therapy (BHRT). The OHB Software delivers a proven BHRT work-flow template that can increase skill and efficiency in the treatment of both male and female patients and advance practice of balance BHRT and thyroid Therapy. Its electronic capabilities provide for easy patient record compilation, maintenance and retrieval. The OHB software allows greater flexibility in task delegation for practices of all sizes and can serve as an effective training tool in practices new to BHRT.

Optimum Hormone Balance

www.optimumhormonebalance.com

972-893-6068



MEASURING LIFE FOR THE WORLD

**Visit us in
Booth #206**

"Life Length has developed the only technology able to individually measure critically short telomeres; those responsible for cell senescence, aging and contributing to the onset of age-related diseases"

Dr. Maria Blasco, Ph.D.,
Director of the Spanish National Cancer Research Center

WANT TO KNOW MORE?

For general inquiries:
info@lifelength.com

*If you are interested in incorporating the
TAT test to your practice, please contact
our distribution partner:*

AML Diagnostics
154 N.W. 16th Street
Boca Raton, FL 33432

Contact: Yenvy Truong
ytruong@amldx.com

Tel: (877) 983-7863 Ext: 503
Direct: (949) 864-6701
Fax: (949) 242-3011

TELOMERE ANALYSIS TECHNOLOGY (TAT) TEST IS AN ADVANCED NEW TOOL FOR:

- ✓ Preventive, proactive health care medicine and age management
- ✓ Understanding biological age versus chronological age
- ✓ Gaining insight into your rate of aging and your risk of developing age-related diseases

As well as:

- ✓ R&D and clinical trials in the pharma, biotech, skincare and nutritional industries
- ✓ Academic and scientific research



LIFE LENGTH

WWW.LIFELLENGTH.COM

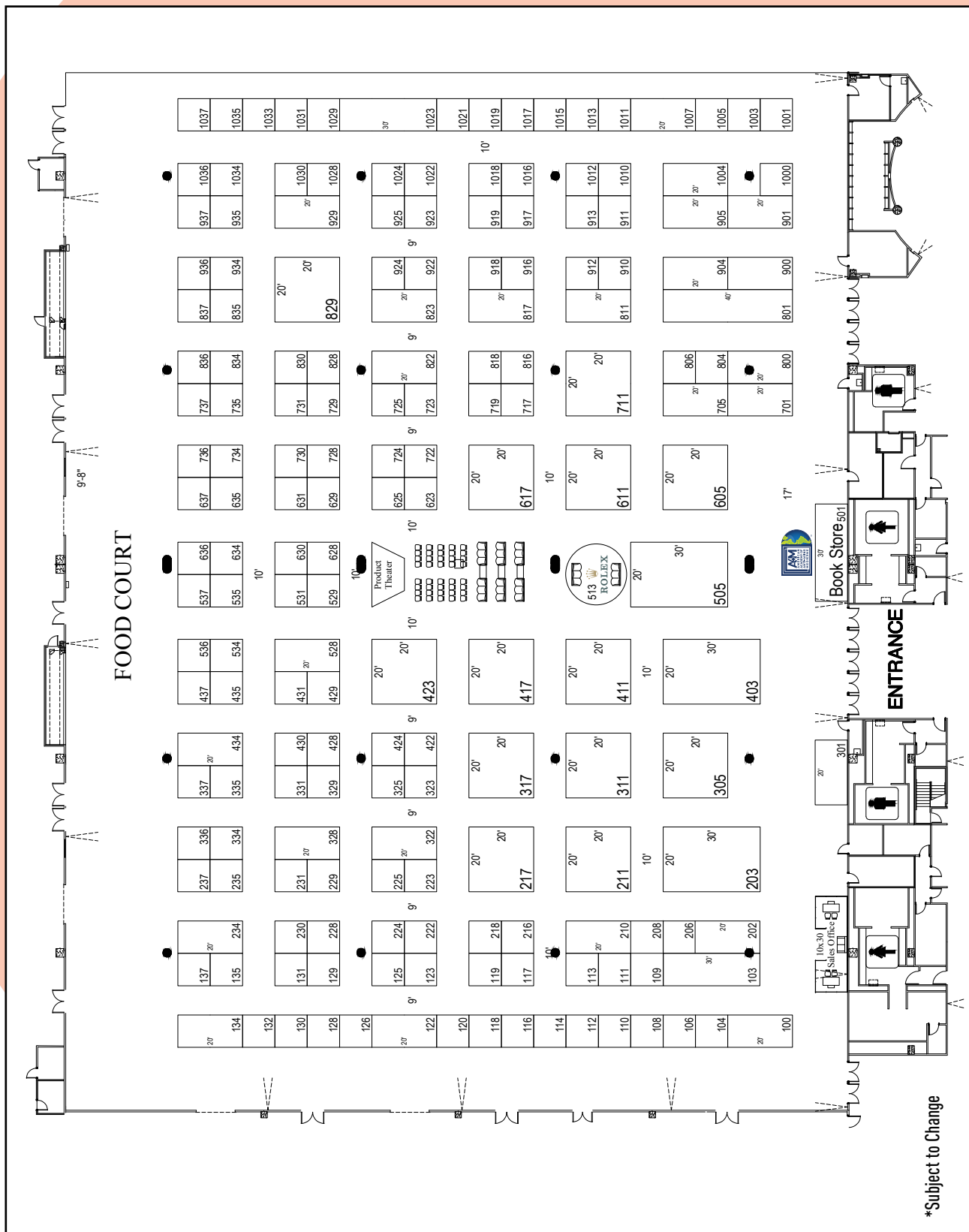


THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

22nd Annual World Congress on Anti-Aging, Regenerative & Aesthetic Medicine

EXHIBIT Floorplan





THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

EXHIBITOR	BOOTH #	EXHIBITOR	BOOTH #
3AD Consulting Group . . . . .	.711	BioRegenerative Sciences Products. . . . .	.722
A. C. Grace Company . . . . .	.628	BIOSPACE INC. . . . .	.725
Accelerated Intelligence Inc. . . . .	.735	BiosRx, Inc. . . . .	.913
Access Diagnostic Networks	1007	BioTE Medical. . . . .	.830
ACIGI Relaxation / Dr. Fuji. . . . .	.428	BodyLogicMD. . . . .	.311
Advanced Dermal Sciences, LLC . . . . .	.536	BodySite Wellness . . . . .	.922
Advanced Naturals Nutraceuticals . . . . .	.429	Boston Heart Diagnostics.	1003
AestheticLink . . . . .	.337	Brilliant Medical Solutions . . . . .	.131
Ageless Regenerative Institute . . . . .	.900	Cascades Clinical Systems . . . . .	.731
Alletess Medical Laboratory . . . . .	.125	Cell Science Systems Corp. . . . .	.912
American Biotech Labs . . . . .	.801	Central Drugs Compounding Pharmacy . . . . .	.617
American Custom Compounding Pharmacy . . . . .	.331	Chromogenex US Inc . . . . .	.528
American Express OPEN . . . . .	.222	Cleveland HeartLab, Inc. . . . .	.108
American Metabolic Laboratories	1017	CNS Vital Signs . . . . .	.925
American Pharmaceutical Ingredients . . . . .	.810	College Pharmacy. . . . .	.836
American Rx . . . . .	.237	Complementary Prescriptions . . . . .	.403
Amiea Med, Inc.	1021	Crystal Clear Digital Marketing. . . . .	.334
AML Diagnostics . . . . .	.202	CustomVite / NutriLab . . . . .	.336
AnazaoHealth Corporation . . . . .	.829	DaVinci Laboratories . . . . .	.629
APS Pharmacy. . . . .	.636	Dermapen World . . . . .	.112
Argentyn 23 by Natural-Immunogenics . . . . .	.424	Dermesse by Axia Medical . . . . .	.225
Astanza Laser . . . . .	.122	Deseret Biologicals, Inc. . . . .	.728
Bio-Tech Pharmacal, Inc. . . . .	.535	Designs for Health . . . . .	.229
BioGenesis Nutraceuticals . . . . .	.835	Diplomat Specialty Pharmacy	1011



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

EXHIBITOR	BOOTH #	EXHIBITOR	BOOTH #
Doctors Supplement Store . . . . .	.335	Hybrid Snack System . . . . .	.114
Douglas Laboratories . . . . .	.811	ICA Health. . . . .	.622
Dunwoody Labs. . . . .	.135	Immuno Laboratories. . . . .	.123
EC3 . . . . .	.837	Infinite Aloe. . . . .	.437
Eclipse Aesthetics. . . . .	.634	InMode . . . . .	.118
Electromedical Products Int'l, Inc. . . . .	.637	Isagenix . . . . .	.325
Empire City Laboratories (ECL) . . . . .	.734	KMI Diagnostic, Inc. . . . .	.823
Emvera Technologies . . . . .	.322	Labrix Clinical Services . . . . .	.329
First Working Capital Group . . . . .	.910	LaserCap Company . . . . .	.230
Forever Health . . . . .	.929	Life Length . . . . .	.206
ForeverGreen / FGXpress . . . . .	.531	Lifeline Stem Cell Skin Care. . . . .	.223
Freedompracticecoaching.com. . . . .	.705	LILA Enterprise . . . . .	.818
FREZZOR . . . . .	.804	Lipo Light Pro. . . . .	.231
Genova Diagnostics, Inc . . . . .	.317	Liquid Smile. . . . .	.901
Global Life Rejuvenation . . . . .	.117	Living Younger Preventive-Aging Medicine & Business	631
Golden Dolphin Villa . . . . .	.1010	Lumiere Medical Inc. . . . .	.924
Hallandale Pharmacy . . . . .	.1023	Magneceutical Health . . . . .	.904
Hanau Health Group . . . . .	.918	Master Pharm Compounding Pharmacy . . . . .	.228
Harvest Technologies Corp.. . . . .	.216	MD-Ware Software . . . . .	.717
Hawaiian Moon. . . . .	.816	Medaus Pharmacy . . . . .	.203
HCRC Staffing. . . . .	.828	Meridian Valley Lab. . . . .	.529
Health Diagnostic Laboratory . . . . .	.211	Metagenics, Inc. . . . .	.423
Healthy Habits . . . . .	.935	Nature-Throid. . . . .	.210
HempMedsPx . . . . .	.305	Nerium International . . . . .	.635



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

EXHIBITOR	BOOTH #	EXHIBITOR	BOOTH #
New Voice - energyDOTs	1001	ReHealth . . . . .	.737
Newtropin Inc. . . . .	.806	Rejuvenation Science . . . . .	.719
Novus Optimum . . . . .	.724	Renua Medical . . . . .	.134
NuCentury Herbs, Inc. . . . .	.109	Restorative Formulations . . . . .	.919
NuMedica . . . . .	.817	SleepImage . . . . .	.630
Nutricos Ceuticals, Inc. . . . .	.916	SottoPelle . . . . .	.119
Nutritional Frontiers . . . . .	.923	Soza Clinic . . . . .	.1022
OMAPREM . . . . .	.611	SpectraCell Laboratories . . . . .	.217
ONDAMED . . . . .	.417	Sunetics International . . . . .	.235
Optimum Hormone Balance . . . . .	.430	T.A. Sciences . . . . .	.605
Ortho Molecular Products, Inc.. . . . .	.701	The Salerno Center for Complementary Medicine . . . . .	.736
Oxy Health . . . . .	.218	Timeslip Solutions / RG-Cell® . . . . .	.129
Parkway Clinical Laboratories . . . . .	.434	United Pharmacy . . . . .	.435
PATH Medical . . . . .	.100	University Compounding Pharmacy . . . . .	.507
Patient One . . . . .	.917	Viora . . . . .	.834
PCCA . . . . .	.623	Vital Nutrients . . . . .	.723
Pharmacy Solutions. . . . .	.625	WebToMed . . . . .	.105
PhysioAge Systems . . . . .	.800	Wells Pharmacy Network . . . . .	.822
PPM Pharmacy . . . . .	.120	Women's International Pharmacy . . . . .	.729
Precision Analytical Inc.. . . . .	.911	Yodle . . . . .	.323
Prevention Pharmaceuticals, Inc.. . . . .	.130	Young-Vitality Co.. . . . .	.224
Protocol For Life Balance . . . . .	.113	Zeltiq . . . . .	.431
Quincy Bioscience. . . . .	.730	ZRT Laboratory LLC . . . . .	.411
Realtime Lab, Inc.. . . . .	.104	ZYTO Technologies, Inc.. . . . .	.905

Identify the cause and guide treatment of frequent GI complaints...



Accelerate your diagnosis-

Gastrointestinal testing offers a concise look at the overall health of the gastrointestinal tract, targeting the areas of digestion, inflammation, gut microbiome, and infection.

Learn More...

PRODUCT THEATER:

"IBS and Specialty Diagnostics"

Friday, May 16th, 4:30pm

Exhibit Hall

WORKSHOP:

**"Accelerating the Diagnosis
and Treatment of IBS"**

Friday, May 16th, 6:45pm

***Visit us at Booth #317
for more information!***

**GI *fx* GI Effects
Stool Profiles**
U.S. patent pending 2008

CDSA^{2.0}

GENOVA
DIAGNOSTICS[®]



ASHEVILLE • ATLANTA • LONDON

63 Zillicoa Street • Asheville NC 28801

800.552.4762 • www.gdx.net



ADVANCED DERMAL SCIENCES, LLC - Booth #536

801 Maplewood Dr., Ste. 15, Jupiter, FL 33458, USA

Ph: 800-367-0844

Email: info@youthfulskin.com

Website: www.youthfulskin.com

Advanced Dermal Sciences is the developer and marketer of the cordless PRPen micro-needling system and the innovative Youthful Skin regenerative treatments.

**AGELESS REGENERATIVE INSTITUTE - Booth #900**

19495 Biscayne Blvd., Ste. 200, Aventura, FL 33180, USA

Ph: 800-420-2689 • F: 866-305-8114

Email: info@agelessregen.com

Website: www.trainingstemcells.com

The Ageless Regenerative Institute offers commercially unbiased, evidence-based, hands-on clinical educational experiences promoting excellence in the latest aesthetic and cell regenerative medicine treatments and procedures.

**BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722**

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.

**DERMAPEN WORLD - Booth #112**

1040 Seminole Dr., Ste. 1262, Fort Lauderdale, FL 33304, USA

Ph: 954-600-8998 • F: 754-999-8355

Email: brian@equipmed.com

Website: www.dermapenworld.com

As a leading global manufacturer, Dermapen world provides a range of professional, top quality, non-surgical aesthetic equipment and cosmeceutical solutions. We use the latest, cutting-edge technology to provide medical clinics an affordable option for treating Scarring, Acne Scarring, Rejuvenation, Wrinkles and many other skin conditions. For more information go to www.dermapenworld.com.

**DERMESSE BY AXIA MEDICAL - Booth #225**

2105 Camino Vida Roble, Ste. L, Carlsbad, CA 92011, USA

Ph: 866-494-4466 • F: 760-931-8266

Email: customerservice@axiamedical.com

Website: www.dermesse.com

Axia Medical is the manufacturer and distributor of the popular anti-aging Dermesse™ prescription strength hydroquinone and tretinoin regimen. The company recently introduced a Private Label program which includes all sales, marketing, and support materials. Products available are a salicylic acid acne line, glycolic acid peels, tretinoin, back bar size, and the Dermesse regimen of prescription, OTC, and non-prescription products.

**LILA ENTERPRISE - Booth #818**

245 Scranton Carbondale Hwy., Dickson City, PA 18508, USA

Ph: 888-600-4521 • F: 678-666-0659

Email: dana@lilaenterprise.com

Website: www.mylilabody.com

Lila Enterprise, LLC delivers profit-center for physicians through advanced healthcare solutions. FDA cleared non-invasive laser engendering inch-loss of 2" or more, in twenty-minutes or less.



AESTHETIC MEDICAL TREATMENTS


Lipo Light Pro
BODY CONTOURING

LIPO LIGHT PRO - Booth #231

120 96th St., Ste. 1H, Brooklyn, NY 11209, USA

Ph: 212-518-8484

Lipo Light Pro brought to you by Innovate Aesthetics.

Lipo Light Pro is an advanced slimming & body contouring Business-In-A-Box technology. Delivers effective results in just 1 treatment. This best machine, lowest price is Non-Invasive, No-Downtime & No-Pain. It comes equipped with 16 "SUPER" LED Smart Paddles. Your ROI is only 8 patients. Visit Our Booth for a FREE TREATMENT.



LUMIERE MEDICAL
EXPECT MORE

LUMIERE MEDICAL INC. - Booth #924

965 W Ralph Hall Pkwy., Ste. 103, Rockwall, TX 75032, USA

Ph: 877-701-2699 • F: 214-853-5491

Website: www.lumieremed.com

Lumiere Medical is the exclusive U.S. distributor for Pollogen Ltd., TriPollar + LumiCam are the latest innovation in both radio-frequency and thermal imaging technology on the market for skin tightening, body contouring and cellulite treatment.



SUNETICS
INTERNATIONAL

SUNETICS INTERNATIONAL - Booth #235

892 Seger Towne Rd., Ste. 44, Rockwall, TX 75032, USA

Ph: 888-266-2232 • F: 214-292-9600

Email: info@sunetics.comWebsite: www.sunetics.com

The Sunetics Clinincal Hair Growth Laser is the first & only device to be FCA 510(k) cleared for safety & efficacy to Grow Hair & Treat Hair Loss in BOTH men & women. This non-invasive, low-level laser device completely saturates the scalp as it delivers laser energy directly to the hair follicles. The 20 minute treatment is pain-free & has no side effects. The in-office clinical laser needs no technician for operation & is a hands-free & labor-free device. A drug-free & chemical-free therapy.




VIORA

VIORA - Booth #834

30 Montgomery St., Ste. 660, Jersey City, NJ 07302, USA

Ph: 201-332-4100 • F: 201-332-4200

Email: info@vioramed.comWebsite: www.vioramed.com

Viora is a market-leading manufacturer and technology provider of advanced radio frequency, light-based systems and diamond tip microdermabrasion.



coolsculpting
by ZELTIQ

ZELTIQ - Booth #431

4968 Willow Rd., Pleasanton, CA 94588, USA

Ph: 925-621-7458 • F: 925-621-7358

Email: kcrowe@zeltiq.comWebsite: www.coolsculpting.com

CoolSculpting® by ZELTIQ® is transforming the aesthetic industry with the world's only proven, non-invasive procedure using Cryolipolysis to eliminate fat in specific areas of a patient's body without harming surrounding tissue or organs. Developed by world-renowned scientists, CoolSculpting® is FDA-cleared and has clinically proven efficacy with undeniable results.

**ALTERNATIVE THERAPIES**


ARGENTYN 23

ARGENTYN 23® BY NATURAL-IMMUNOGENICS - Booth #424

3265 W. McNab Rd., Pompano Bch, FL 33069, USA

Ph: 888-328-8840 • F: 954-979-0838

Email: seth@n-icorp.comWebsite: www.argentyn23.com

Argentyn 23® is the #1- selling professional silver brand in North America, carried by thousands of clinics nationwide. Since 2001, Argentyn 23® has provided practitioners with the safest, purest, and most effective silver (Bio-Active Silver Hydrosol™) ever developed, for both internal and external clinical use.

Quality in compounding.

PCCA carries the torch.

As the leading supplier to compounding pharmacies, we know that quality compounding starts with quality chemicals. That's why we conduct 14 tests and analyses on every ingredient and reject almost 200 chemical lots each year. But it doesn't stop there. It also means providing the industry's best education and training programs (over 115 in 2014) combined with more consulting pharmacists on-hand than anyone else and access to more than 8,000 formulas. What does all this add up to? Assurance that compounding pharmacists and their customers can experience quality without compromise.

See our process at **pccarx.com/quality**.

Make sure your compounding pharmacy uses PCCA quality chemicals. Go to **findacompiler.com** to find a PCCA member pharmacy in your area.



800.331.2498 | pccarx.com

SecretropinRx

Visit www.SecretropinRx.com to read the study.



NOW no Artificial Flavoring



NEW Nanoliposomal delivery
to maximize absorption

Amino Acid patented complex
sold only by prescription or through a physician.

NEW Directions!

Initial Dose: Start with 4 sprays under the tongue at bedtime.

Based on IGF-1, IGFBP-3, increase by 1 spray subsequent
to lab results to optimal levels.

Buy **10** Bottles and get the
SPECIAL SHOW PRICE!*

Visit the **UCP Booth** for details

*Wholesale Only.

Available at
University Specialty Drugs
866-444-9475 ext.334

Susan Dolinger, Rpt
susand@ucprx.com

www.universityspecialtydrugs.com



UNIVERSITY
SPECIALTY
DRUGS

BODYLOGICMD - Booth #311

5000 T-Rex Ave., Ste. 200, Boca Raton, FL 33431, USA

Ph: 561-972-9550 • F: 877-475-8149

Email: jswartz@bodylogicmd.com

Website: www.bodylogicmd.com

Your practice. Our solution. The future. BodyLogicMD is the nation's largest franchise of highly trained physician-owned practices specializing in bio-identical hormones integrated with customized fitness and nutrition programs. Find out more about our Risk Free Guarantee.

Call 888-625-8705 or visit join.bodylogicmd.com.

**FOREVERGREEN / FGXPRESS - Booth #531**

57 Coachwood Pt., Lethbridge, Alberta T1K 6B1, Canada

Ph: 403-381-7670

Email: marilyn@team-connections.com

Website: www.marilyn-stewart.com

FGXpress distributes an all natural topical patch called PowerStrips, an FDA Listed Class 1 Medical Device. PowerStrips are doctor formulated technology providing all-natural solution for pain relief, shipping to every country word-wide, for the same price.

**ISAGENIX - Booth #325**

1984 Asheville Dr., Charlottesville, TX 22911, USA

Ph: 512-350-1016 • F: 434-244-0521

Email: Drveronica65@gmail.com

Website: www.Drveronica.isagenix.com

We offer Whole Body Nutritional Systems with Solutions for Accelerated Weight Loss, Energy & Performance, Youthful Aging, and Telomere Support. Set up your Wholesale Account Today and receive Free Enrollment!

**MAGNECEUTICAL HEALTH™ - Booth #904**

611 Druid Rd. E., Ste. 714, Clearwater, FL 33756, USA

Ph: 727-399-6850 • F: 727-399-6850

Email: sfrischman@magneceutical.com

Website: www.magneceutical.com

Magneceutical Health™ (Clearwater, FL) is a medical device development company that manufactures electromagnetic resonance therapy devices used to address symptoms of pain, stiffness, inflammation and sleep. The Magnesphere™ device uses clinically proven, patented electromagnetic technology to provide a "cloud based" system that utilizes precisely tuned, extremely low level electromagnetic fields ("EMFs") that communicate at the same signal level as those of molecules found in the human body.

**NOVUS OPTIMUM - Booth #724**

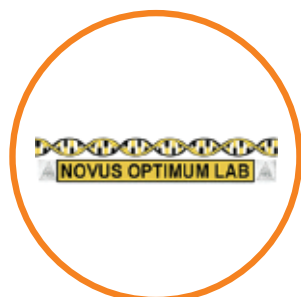
PO Box 640588, San Francisco, CA 94164, USA

Ph: 888-499-9100 • F: 415-986-1580

Email: sales@novusoptimum.com

Website: www.novusoptimum.com

Anti-Aging Food Supplements: Brain Sharpener™, Sleep Ezzy™, Pleasure Enhancer™, it is not Viagra but is an Erectile Enhancer™, Virgin-Again™- libido enhancer for women, 4-Endocrine Health™, Apoptosin™, Elasteen™, Optimum Man, anti-aging for men, Age-Spots Cleanser™ Velvet-Skin™, wrinkle reducer for face-neck hands-eyes, 4-Constipation, Digestion, Parasites™ and more. Samples available at our booth.

**ONDAMED - Booth #417**

2570 Route 9W, Cornwall, NY 12518, USA

Ph: 845-534-0456 • F: 845-534-0457

Email: support@ondamed.net

Website: www.ondamed.net

ONDAMED's unique Biofeedback System guides the practitioner to locate and stimulate hidden areas of physiological weaknesses, such as inflammation and diseased tissue. Identified areas are stimulated on a cellular level with focused fields inducing vector driven currents. The targeted therapy activates immune and lymphatic systems and metabolic processes.

ONDAMED - The safe, non-invasive, more effective and better way to help your patients.



ALTERNATIVE THERAPIES**ZYTO TECHNOLOGIES, INC. - Booth #905**

387 South 520 West, Ste. 200, Lindon, UT 84042, USA

Ph: 801-224-7199 • F: 866-870-3318

Email: info@zyto.com

Website: www.zyto.com

ZYTO biocommunication software establishes a communication link with your body. The information gathered is used to facilitate decision making about healthcare and wellness. ZYTO.com.

**COMPOUNDING PHARMACIES****AMERICAN CUSTOM COMPOUNDING PHARMACY - Booth #331**

2607 Walnut Ln., Ste. 220, Dallas, TX 75229, USA

Ph: 214-366-0022 • F: 214-366-0298

Email: info@americancustomcompounding.com

Website: www.americancustomcompounding.com

American Custom Compounding Pharmacy is a specialty compounding pharmacy in Dallas, Texas with the ability to customize medications to meet the individual needs of each specific physician or patient.

**AMERICAN RX - Booth #237**

412 S. Court. St., Ste. 300, Florence, AL 35630, USA

Ph: 877-461-6335 • F: 855-672-2674

Email: sales@myamericanrx.com

Website: www.myamericanrx.com

American Rx is an AL-based compounding pharmacy that gained nat'l recognition for topical pain creams used in the pain mgmt of osteoarthritis, rheumatoid arthritis, degenerative joint conditions, fibromyalgia, tendonitis, neuropathy, & radiculopathy. In 2013 it launched a new division focused on the manufacture & distribution of hormone pellets, an increasingly popular treatment for hormone replacement therapy. We are a central-fill pharmacy & among a very limited number of pharmacies w/DEA-licensing allowed to produce & distribute BHRT.

**ANAZAOHEALTH CORPORATION - Booth #829**

5710 Hoover Blvd., Tampa, FL 33634, USA

Ph: 800-995-4363

Email: jpbeckel@anazaohealth.com

Website: www.anazaohealth.com

AnazaoHealth is committed to providing high-quality compounded preparations not commercially available for Aesthetics, Age Management, Chronic Rhinosinusitis, Hormone Replacement Therapy, Men and Women's Health, Mesotherapy, Supplements, Urology (incl. ED) & Weight Loss. Our custom compounded preparations are individually tailored to meet the special needs of your patients incl. unique dosage forms. We are appropriately licensed in all 50 states.

**APS PHARMACY - Booth #636**

34911 US Highway 19 N #600, Palm Harbor, FL 34584, USA

Ph: 727-787-4137 • F: 727-781-7075

Email: ejohnson@apsmeds.com

Website: www.apsmeds.com

We compound medication specifically for individuals. APS is USP compliant for potency, sterile and non-sterile preparations. Safe, reliable, affordable.

**BRILLIANT MEDICAL SOLUTIONS - Booth #131**

PO Box 4456, Deerfield Beach, FL 33442, USA

Ph: 888-838-0432 • F: 888-838-0432

Email: medicalsales@brilliantmedical.com

Website: www.brilliantmedical.com

Brilliant Medical Solutions delivers healthy results to medical practices. Cutting edge clinician-friendly medical devices & treatments to heal diagnose & provide outstanding care for patients while improving the revenue of the practice. Our products include diagnostic solutions for cardiovascular, neurological, diabetes progression, psychological & DNA testing. We provide unique products to assist with treatment in pain management, wound healing, skin treatments & cardiovascular health.



CENTRAL DRUGS COMPOUNDING PHARMACY - Booth #617

520 W. La Habra Blvd., La Habra, CA 90631, USA

Ph: 877-447-7077 • F: 562-694-3869

Email: info@centraldrugsrx.com

Website: www.centraldrugsrx.com

Central Drugs is an industry leading compounding pharmacy dedicated to helping prescribers create health for their patients. Through customized compound medications, rigorous quality standards, and expert customer service that puts you and your patients first, Central Drugs is the preferred choice for the prescribers committed to creating health one patient, one family, and one community at a time.

**COLLEGE PHARMACY - Booth #836**

3505 Austin Bluffs Pkwy., Ste. 101, Colorado Springs, CO 80918, USA

Ph: 800-888-9358 • F: 800-556-5893

Email: info@collegepharmacy.com

Website: www.collegepharmacy.com

Knowledge Changes Everything: Quality. Innovation. Experience. Since 1974. Innovative compounding solutions for health and wellness success: Age Management, BHRT, Environmental Medicine, Specialty Injectables/IV Protocols. Now Available! BioG MicroTabs Advanced Nutritional Supplement Blends (specialty, custom, private label).

**DIPLOMAT SPECIALTY PHARMACY - Booth #1011**

4100 S. Saginaw St., Flint, MI 48507, USA

Ph: 855-768-9716 • F: 866-732-8720

Email: hello@diplomat.is

Website: www.diplomat.is

With PCAB Accreditation, state-of-the-art facilities, and stringent quality control, Diplomat has brought clinical excellence to customized medications for more than 30 years.

**HALLANDALE PHARMACY - Booth #1023**

1109 E. Hallandale Beach Blvd., Hallandale, FL 33009, USA

Ph: 954-455-3822 • F: 954-381-8164

Website: www.hallandalerx.com

Meeting the demands of today's medicine, we provide HRT formulations with quality and precision at affordable prices. As dedicated pharmacists and owners, we pride ourselves in our comprehensive pharmaceutical services to fulfill the unique needs of physicians and their patients.

**MASTER PHARM COMPOUNDING PHARMACY - Booth #228**

115-06 Liberty Ave., Richmond Hill, NY 11419, USA

Ph: 866-630-5600 • F: 866-630-5600

Email: tmasta@masterpharm.com

Website: www.masterpharm.com

MasterPharm is a full service PCAB accredited compounding pharmacy, operating 2 high tech ISO 5 clean rooms. All intrathecal solutions are tested for potency, endotoxins, fungal growth and sterility.

**MEDAUS PHARMACY - Booth #203**

2637 Valleydale Rd., Ste. 200, Birmingham, AL 35244, USA

Ph: 800-526-9183

With 80 years of combined compounding experience, our staff has established a reputation among physicians by providing medications and advice that make a difference in the lives of their patients. Specialties include: Bio-Identical Hormones, Thyroid Medications (including Sustained Release T-3), Injectable Glutathione, MIC Injections, Vitamin and Mineral Injections.





PCCA - Booth #623

9901 S. Wilcrest Dr., Houston, TX 77099, USA

Ph: 800-331-2498 • F: 281-933-6016

Email: nqader@pccarx.com

Website: www.pccarx.com

PCCA helps pharmacists and prescribers create personalized medicine that makes a difference in patients' lives. We are the complete resource for the independent compounding pharmacist.



PHARMACY SOLUTIONS - Booth #625

5204 Jackson Rd., Ste. C, Ann Arbor, MI 48103, USA

Ph: 734-821-8000 • F: 734-821-8001

Email: info@pharmacysolutionsonline.com

Website: www.pharmacysolutionsonline.com

Pharmacy Solutions is a cutting edge pharmacy specializing in personalized medicine and compounded medications. Services include BHRT, skin care, pain gels and vitamin and amino acid mixtures. Our staff are leaders with advanced training in medication therapy management and functional medicine.



PPM PHARMACY - Booth #120

3300 NW 56th St., Ste. 101, Oklahoma City, OK 73112, USA

Ph: 405-604-6861 • F: 405-213-1554

Email: info@ppmpharmacy.com

Website: www.ppmpharmacy.com

PPM is a leading edge of pharmaceutical technology enabling us to deliver a high quality product to our customers. We are a full compounding pharmacy with a state of the art sterile lab. PPM offers a full line of compounds for hormone replacement therapy.



UNITED PHARMACY - Booth #435

3951 Haverhill Rd. N., Ste.120-121, West Palm Beach, FL 33417, USA

Ph: 855-445-4401 • F: 561-616-9087

Email: admin@united-rx.com

Website: www.united-rx.com

United Pharmacy specializes in producing the highest quality custom medications across the spectrum of sterile and non-sterile compounding to include BHRT, Topical Pain, Erectile Dysfunction, Weight Loss, Infusion, Chelation and shortage drugs.



UNIVERSITY COMPOUNDING PHARMACY - Booth #507

1875 Third Ave., San Diego, CA 92101, USA

Ph: 800-985-8065 • F: 619-683-2008

Email: joe@ucprx.com

Website: www.ucprx.com

UCP compounds a wide variety of compounded medications used in the age management market. We deliver anywhere in the USA. See our website at www.ucprx.com.



WELLS PHARMACY NETWORK - Booth #822

3420 Fairlane Farms Rd., Ste. 300, Wellington, FL 33414, USA

Ph: 855-WELLSRX • F: 561-922-9665

Email: lblue@wellsrx.com

Website: www.wellsrx.com

Compounding at Wells Pharmacy combines the classic art and skill of pharmacy with the latest medical knowledge and state-of-the-art technology, allowing our specially trained professionals to prepare customized medications in our on-site laboratory to meet each patient's specific needs.



AESTHETICLINK - Booth #337

71 Manzanita Rd., Atherton, CA 94027, USA

Ph: 650-265-8449

Email: victor@aestheticlink.com

Website: www.aestheticlink.com

AestheticLink is based in Silicon Valley, California and is the leading provider of HIPPA-compliant patient relationship management software for aesthetic and anti-aging physicians. AestheticLink increases revenue and improves patient retention and satisfaction.



AestheticLink

CASCADES CLINICAL SYSTEMS - Booth #731

11111 Grass Valley Ranch Rd., Grass Valley, CA 95945, USA

Ph: 530-642-8227 • F: 267-295-8083

Email: info@ccsaway.com

Website: www.ccsaway.com

The Cascades Clinical Systems c-clinicals© solution does more than the best electronic health record and clinical management system do taking optimal aging practices to the next level. We save physicians time, reduce errors of omission, and improve communications.

Cascades Clinical Systems, Inc.

CNS VITAL SIGNS - Booth #925

598 Airport Blvd., Ste. #1400, Morrisville, SC 27560, USA

Ph: 888-750-6941 • F: 888-650-6795

Email: support@cnsvs.com

Website: www.cnsvs.com

CNS Vital Signs provides age management and integrative medicine clinicians with leading-edge computerized neurocognitive assessments to collect valid, reliable, cognitive measures to view patient's functional status, progression/ change, serves as an outcomes measure pre/post treatment.

CNS Vital Signs



bioTE[®]
M E D I C A L
Age Healthier. Live Happier.

Find out more at: www.JoinBioTE.com

**Integrate BioTE[®] therapy into your practice and
add \$250,000 per year to your income!**

COMPUTERS / EMR


Living Younger
Preventive Aging Medicine & Business System

LIVING YOUNGER PREVENTIVE-AGING MEDICINE & BUSINESS - Booth #631

4803 E. Placita Provida, Tucson, AZ 85718, USA

Ph: 520-229-1900 • F: 520-229-1900

Email: gwpetersburg@livingyoungerpreventive-aging.com

Website: www.livingyoungerpreventive-aging.com

Jumpstart a successful preventive-aging practice quickly and affordably. Used worldwide, this turnkey package provides everything: Step-by-step instructions, consultation forms, comprehensive human performance, biologic-age assessment, clinical guidelines, patient education, business forms, marketing materials. Integrated digital clinical references. Hands-on training and support.



MDWARE
SOFTWARE

MD-WARE SOFTWARE - Booth #717

1788 Drew Rd., 1st floor, Mississauga, Ontario L5S1L7, Canada

Ph: 800-798-6199 • F: 905-362-4374

Website: www.mdware.com

MD-Ware is the most powerful EMR/Marketing/Insurance Billing/ Practice Management Software. MD-Ware offers an intuitive, easy touch screen design and flexibility. We are the obvious choice with our all in one solution.



OH Balance
Optimum Hormone Balance

OPTIMUM HORMONE BALANCE - Booth #430

6420 N. MacArthur Blvd., Ste. 100, Irving, TX 75039, USA

Ph: 972-893-6068 • F: 972-650-1072

Email: ryan.addison@optimumhormonebalance.com

Website: www.optimumhormonebalance.com

Optimum Hormone Balance developed a BHRT Patient Assessment and Management Portal in an EMR-like format, for use by Integrated Medicine Providers, to Advance the Practice and Management of Balanced BHRT, Thyroid and Anti-Aging Therapy.



PhysioAge
systems

PHYSIOAGE SYSTEMS - Booth #800

30 Central Pk. S., Ste. 8D, New York, NY 10019, USA

Ph: 212-888-7074 • F: 212-888-7828

Email: jerry@PhysioAge.com

Website: www.PhysioAgeSystems.com

How Well Are Your Patients Aging?

Since 2003, PhysioAge Medical Group in NYC has been using sophisticated Biomarkers of Aging to measure the aging process in our patients. Our Next-Generation Physical Exam measures the physiological age of the arteries, brain, skin, lungs, telomeres and immune system. Stop by our booth for a 15-minute free assessment to find out how well you're aging.

COSMECEUTICALS


BioRegenerative
SCIENCES™

BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.



LIFELINE
STEM CELL SCIENCE FOR SKIN™

LIFELINE STEM CELL SKIN CARE - Booth #223

5950 Priestly Dr., Carsbad, CA 92008, USA

Ph: 760-710-3208 • F: 760-476-0600

Email: lnelson@lifelineskincare.com

Website: www.lifelineskincare.com

Lifeline Stem Cell Skin Care.

Lifeline Stem Cell Skin Care (subsidiary of International Stem Cell) harnesses the power of human stem cells for regenerating skin cells, creating a new era in anti-aging skincare. Lifeline Skin Care rejuvenates aging, damaged skin using growth factors derived directly from the stem cells.



Two natural thyroid medications.

Because no two
people are alike.



- Hypoallergenic inactive ingredients
- Over 75 years of proven results
- T4/T3 natural thyroid replacement hormones
- Available in 13 strengths

- 2 inactive ingredients
 - Inulin (from chicory root)
 - Medium Chain Triglycerides (from coconut)
- T4/T3 natural thyroid replacement hormones
- Available in 8 strengths



Discover your natural solutions to hypothyroidism. Nature-Throid® and WP Thyroid® naturally replace the lacking T4 and T3 hormones caused by hypothyroidism. Nature-Throid® is the classic medication for hypothyroid treatment. WP Thyroid® was formulated using only two all natural inactive ingredients. Both medications are hypoallergenic and deliver a consistent T4 and T3 hormone replacement. Nature-Throid® and WP Thyroid® are available by prescription only; talk to your health care provider today.



877.797.7997 | nature-throid.com

sales@rlclabs.com | wpthyroid.com

THE MISSING LINK FOR SKIN CARE.

^CBD

Everything You Wanted to Know About CBD, But Were Afraid To Ask
Featured Guest Speaker: Dr. John Hicks III
Friday, May 16th at 6:45pm

^CANNABIDIOL IS A NATURAL CONSTITUENT OF HEMP OIL

HempMeds  TM

NERIUM INTERNATIONAL - Booth #635

360 E. 1st St., Ste. 434, Tustin, CA 92780, USA

Ph: 714-417-0802 • F: 781-240-7762

Email: biotechskincare@gmail.com

Website: www.biotechskinteam.com

NeriumAD® is the only patented anti-aging, anti-oxidant skincare line in America. It delivers real results proven through real science. Third-party clinical trials show NeriumAD® dramatically reduces the appearance of wrinkles, pores, discoloration and loose skin.

COSMECEUTICALS**BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722**

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.

DERMATOLOGY**HAWAIIAN MOON - Booth #816**

321 S. Missouri Ave., Clearwater, FL 33756, USA

Ph: 888-256-3276 • F: 727-216-3874

Email: sales@hmalow.com

Website: www.aloecream.biz

Say Goodbye to Dry Skin with Hawaiian Moon Organic Aloe Cream!

**INMODE - Booth #118**

100 Leek Crescent #15, Richmond Hill, Ontario L4B 3E6, Canada

Ph: 855-411-2639 • F: 855-411-6789

Email: info@inmodemd.com

Website: www.inmodemd.com

InMode is an Israeli-based company that manufactures and markets aesthetic applications. InMode has revolutionary non-invasive options for fractional skin resurfacing and contraction (Fractora), ultra-fast diode hair removal (Diolaze), skin pigmentation and vascular lesions (Lumecca Photofacial), and cellulite/body contouring (BodyFX) - essentially 15+ revenue streams in one machine.

**SUNETICS INTERNATIONAL - Booth #235**

892 Seger Towne Rd., Ste. 44, Rockwall, TX 75032, USA

Ph: 888-266-2232 • F: 214-292-9600

Email: info@sunetics.com

Website: www.sunetics.com

The Sunetics Clinical Hair Growth Laser is the first & only device to be FCA 510(k) cleared for safety & efficacy to Grow Hair & Treat Hair Loss in BOTH men & women. This non-invasive, low-level laser device completely saturates the scalp as it delivers laser energy directly to the hair follicles. The 20 minute treatment is pain-free & has no side effects. The in-office clinical laser needs no technician for operation & is a hands-free & labor-free device. A drug-free & chemical-free therapy.

**ACCESS DIAGNOSTIC NETWORKS - Booth #1007**

5151 Corporate Way, Jupiter, FL 33458, USA

Ph: 866-720-8386

Email: info@accessmedlab.com

Website: www.accessmedlab.com

Access Diagnostic Networks offers a full spectrum of laboratory testing to fulfill the needs of your thriving practice. Using only the latest State of the Art instrumentation, we ensure quality, meaningful results along with our Superior Customer Service to better serve you. Our products & services range from esoteric testing, microbiology, advanced cardiac, salivary testing, tailored age management panels & much more. Access Tests results in 24-48 hours. It's all about Access...

DIAGNOSTIC SERVICE / LABORATORIES

DIAGNOSTIC SERVICE / LABORATORIES**ALLETSS MEDICAL LABORATORY - Booth #125**

74 Accord Park Dr., Norwell, MA 02061, USA

Ph: 800-225-5404 • F: 781-871-4182

Email: mjclark@foodallergy.com

Website: www.foodallergy.com

At Alletess Medical Laboratory, our mission is to provide high quality laboratory testing & services to our clients in a professional & timely manner. We provide in-vitro testing for food allergies & sensitivities, environmental allergies, yeast overgrowth & other tests to assess the immune system. Customized Wellness Programs are developed from individual patient test results & staff nutritionists are available to your patients for complimentary consultation.

**AMERICAN METABOLIC LABORATORIES - Booth #1017**

1818 Sheridan St., Ste. 102, Hollywood, FL 33020, USA

Ph: 954-929-4814 • F: 954-929-4896

Email: doctor@schandl.com

Website: www.americanmetaboliclaboratories.net

Early Cancer detection and follow up by clinical laboratory medicine determinations. Home of the cancer profile plus, longevity profile and other innovative tests. American MetabolicLaboratories.net.

**AML DIAGNOSTICS - Booth #202**

154 NW 16th St., Boca Raton, FL 33432, USA

Ph: 855-811-4810 • F: 561-999-1989

Email: info@amldx.com

Website: www.amldx.com

AML Diagnostics specializes in laboratory testing for physicians in metabolic, anti-aging, integrative, functional & complementary medicine. We offer a large menu of hormone, metabolic & functional tests that can be performed through blood, urine & saliva testing. Additionally, we strive to offer the most unique & cutting edge tests available worldwide. Currently, in North America AMLDx is the only laboratory that offers the Life Length short telomere blood test and upcoming TK-1 cancer screening profile.

**BOSTON HEART DIAGNOSTICS - Booth #1003**

175 Crossing Blvd., Ste. 100, Framingham, MA 01702, USA

Ph: 508-877-8711 • F: 508-877-8707

Email: info@bostonheartdiagnostics.com

Website: www.bostonheartdiagnostics.com

Boston Heart is reinventing the role of diagnostics in cardiovascular disease. We integrate proprietary next-generation diagnostics with an individual's food and exercise preferences to create tailor-made nutrition, lifestyle and support strategies proven to drive better health outcomes.

**CELL SCIENCE SYSTEMS CORP. - Booth #912**

852 South Military Trail, Deerfield Beach, FL 33442, USA

Ph: 800-872-5228 • F: 954-428-8676

Email: info@alcat.com

Website: www.alcat.com

Cell Science Systems, Corp. (CSS), is a life sciences company and the worldwide leader in food intolerance/sensitivity testing as the manufacturer of the Alcat test. Our newest test offering is the Gut Health Profile (GHP). Our GHP is the ONLY gut health profile that evaluates the GI tract on a genetic, antibody and cellular level.

**CLEVELAND HEARTLAB, INC. - Booth #108**

6701 Carnegie Ave., Ste. 500, Cleveland, OH 44103, USA

Ph: 866-358-9828 • F: 866-869-0148

Email: chlcustomerservice@clevelandheartlab.com

Website: www.clevelandheartlab.com

Cleveland HeartLab is a clinical reference laboratory specializing in next-generation chronic disease prevention diagnosis and management. We offer a proprietary product pipeline that includes valuable cardiovascular and inflammatory biomarkers.

DUNWOODY LABS - Booth #135

Nine Dunwoody Pk., Ste. 121, Dunwoody, GA 30338, USA

Ph: 678-736-6374 • F: 770-392-9805

Email: info@dunwoodylabs.com

Website: www.dunwoodylabs.com

Dunwoody Labs is an innovative provider of testing solutions to assist in the diagnosis or the management of a variety of conditions commonly addressed by integrative medicine. Our unique variety of profiles are designed to help practitioners address comprehensive approaches to patient care based upon a number of different analytes that aid in a more complete understanding of processes affecting the human body. Empowering both your clinic and patients, out of disease management and into HEALTHcare.

EMPIRE CITY LABORATORIES (ECL) - Booth #734

4306 3rd Ave., Brooklyn, NY 11232, USA

Ph: 917-270-7933 • F: 718-788-3871

Email: Francesca@empirecitylabs.com

Website: www.empirecitylabs.com

Empire City Laboratory is an advanced, full service clinical and diagnostic laboratory dedicated to the needs of the fast growing anti aging medical community of innovative and cutting edge doctors. We offer advanced esoteric testing and pride ourselves on the most advanced technologies. ECL is committed to delivering efficient, accurate and precise diagnostic results. ECL accepts most insurance and offers competitive client pricing.

GENOVA DIAGNOSTICS, INC - Booth #317

63 Zillicoa St., Asheville, NC 28801, USA

Ph: 800-522-4762

Email: info@gdx.net

Website: www.gdx.net

Genova Diagnostics is a leading clinical laboratory applying systems-based testing approaches to the diagnosis, treatment and prevention of complex chronic diseases. Genova specializes in integrative clinical laboratory services with actionable information.

HEALTH DIAGNOSTIC LABORATORY - Booth #211

737 N. 5th St., Ste. 103, Richmond, VA 23219, USA

Ph: 877-443-5227 • F: 804-343-2704

Email: clientservices@hdlabinc.com

Website: www.myhdl.com

Health Diagnostic Laboratory, Inc. offers an advanced test to detect risk for heart disease, diabetes, and related diseases. HDL, Inc. provides a basis for personalized treatment, allowing physicians to better manage patients. Individuals receive an overview of their risks and counseling from Clinical Health Consultants to improve compliance and satisfaction.

**IMMUNO LABORATORIES - Booth #123**

6801 Powerline Rd., Fort Lauderdale, FL 33309, USA

Ph: 800-231-9197 • F: 954-691-2505

Email: info@immunolabs.com

Website: www.immunolabs.com

If there was just one food that was causing you discomfort, wouldn't you want to know what the food is? Immuno Bloodprint® panels test for common foods that are eaten every day. After 36 years of testing, we invite you to take advantage of this diagnostic tool and learn about how we facilitate successful patient outcomes and help you build a profitable practice.

**KMI DIAGNOSTIC, INC. - Booth #823**

8201 Central Ave. NE, Ste. P, Minneapolis, MN 55432, USA

Ph: 763-780-2955 • F: 763-780-2988

Email: mkowal@kmidiagnostics.com

Website: www.kmidiagnostics.com

A CLIA- certified Endocrinology laboratory. Excelling in salivary assessment of steroid hormones and other salivary tests, supporting Clinics and Clinicians offering clients wellness, anti-aging, women's health and sports medicine programs. Expanding into serology testing for thyroid function and urinary assessment of estrogen ratios, cytokines and catecholamines.



DIAGNOSTIC SERVICE / LABORATORIES

**LABRIX CLINICAL SERVICES - Booth #329**

16255 SE 130th Ave., Clackamas, OR 97015, USA

Ph: 877-656-9596 • F: 503-656-9756

Email: marketing@labrix.com

Website: www.labrix.com

Labrix was founded by clinicians Jay H. Mead, MD, FASCP and Erin T. Lommen, ND with the goal of raising the bar on quality hormone testing. Labrix is recognized for setting a new standard for saliva testing in accuracy, reliability and turnaround times. Labrix also offers urinary neurotransmitter testing because adrenal hormones, sex hormones, and neurotransmitters are functionally interrelated. Labrix is a CLIA registered laboratory and is certified to test hormones in New York state.

**LIFE LENGTH - Booth #206**

Agustin de Betancourt 21, 8th Floor, Madrid, 28003, Spain

Ph: 34-91-395-6368 • F: 34-91-395-6396

Email: info@lifelength.com

Website: www.lifelength.com

Life Length is the only company in the world able to measure telomeres individually at the chromosomal level, providing the crucial measure for cell senescence, aging and age-related diseases. Life Length provides testing services to pharmaceutical, nutraceutical and biotech industries for drug and product R&D, as well as to the general public through physicians and clinics.

**MERIDIAN VALLEY LAB - Booth #529**

6839 Fort Dent Way, Ste. 206, Tukwila, WA 98188, USA

Ph: 855-405-TEST • F: 206-209-4211

Email: info@meridianvalleylab.com

Website: www.MeridianValleyLab.com

Meridian Valley is the world's leader and pioneer of 24-hr urine hormone testing and the first lab to offer the ELISA method for food allergy testing.

**PARKWAY CLINICAL LABORATORIES - Booth #434**

3494 Progress Dr., Bensalem, PA 19020, USA

Ph: 800-327-2764 • F: 855-349-4725

Email: info@parkwayclinical.com

Website: www.parkwayclinical.com

Parkway Clinical Laboratories (PCL) is a full service CLIA-certified laboratory providing basic & specialized tests with a special focus on supporting anti-aging and wellness providers in the initial diagnosis and ongoing care of patients suffering from complex chronic diseases, nutritional deficiencies and advanced cardiovascular risk. Through our team of certified phlebotomists, PCL offers on-site blood draw service. Reports are available within 24-48 hours of specimen receipt.

**PATH MEDICAL - Booth #100**

185 Madison Ave., 6th Floor, New York, NY 10016, USA

Ph: 212-213-6155 • F: 212-213-6188

Email: pathmedical@aol.com

Website: www.pathmedical.com

Eric Braverman, MD is the best-selling author of Younger You, The Edge Effect and other popular titles. He was recently featured on NBC's Today Show, was a special expert guest on The Tyra Banks Show, and was interviewed by Pat Robertson on CBN's 700 Club! Join Dr. Braverman and the PATH Medical staff at booth 100 and sign up for limited Brain test appointments. Books, Vitamins and Research available at our booth.

**PRECISION ANALYTICAL INC. - Booth #911**

3138 NE Rivergate St., Ste. 301C, McMinnville, OR 97128, USA

Ph: 503-687-2050 • F: 503-682-2052

Email: info@precisionhormones.com

Website: www.precisionhormones.com

Advanced hormone testing. Our dried urine collection is the easiest collection method. The analysis combines the benefits of urine testing (comprehensive metabolite assessment) with the free cortisol pattern usually measured in saliva.

REALTIME LAB, INC. - Booth #104

4100 Fairway Ct., Ste. 600, Carrollton, TX 75010, USA

Ph: 972-243-7754 • F: 972-243-7759

Email: hcadwallader@realtimelab.com

Website: www.realtimelab.com

RTL is a CLIA certified and CAP approved lab that has been involved in multiple medical studies.

RTL offers a reliable, approved test for mycotoxins in both human and environmental samples.

RTL also offers mold DNA tests, immuno assays and other, clinically relevant tests for your practice.

SPECTRACELL LABORATORIES - Booth #217

10401 Town Park Dr., Houston, TX 77082, USA

Ph: 800-227-5227 • F: 281-530-2431

Email: spec1@spectracell.com

Website: www.spectracell.com

SpectraCell Laboratories has become the nation's leader in functional nutritional analysis and cardiovascular risk assessment by utilizing the most advanced technology. SpectraCell has expanded its offerings to include the only commercially available telomere test for your age management practice.



ZRT LABORATORY, LLC - Booth #411

8605 SW Creekside Pl., Beaverton, OR 97008, USA

Ph: 503-466-2445 • F: 503-352-3263

Email: info@zrtlab.com

Website: www.zrtlab.com

ZRT has been innovating hormone testing since its founding in 1998. ZRT first developed the methodology that made saliva hormone testing commercially viable, and also developed the science for measuring hormones in both dried blood spot and dried urine. We are one of the few laboratories capable of testing across three methodologies, which means ZRT tests in the most appropriate medium.



American RX now brings to you the best **HORMONE REPLACEMENT PELLET PRODUCT MIX** in the market. Through our national partners we have the best and safest option for your practice and patients.



ALL OF THESE PRODUCTS ARE BUILT UNDER THE STRICTEST OF CONTROLS...

- ▶ DEA Manufacturer License
- ▶ FDA Registered
- ▶ FDA Inspected
- ▶ Gamma Radiation Sterilization Process (100% sterile)
- ▶ FDA Approved 3rd Party Lab Verification
- ▶ Licensed and can ship to all 50 US States
- ▶ National compounding pharmacy that is scrutinized as a DEA Manufacturer
- ▶ Board Certified overseeing physician, with an active pellet practice

Estradiol (each)

- 6mg • 22mg
- 10mg • 25mg
- 12.5mg • 31mg
- 15mg • 37.5mg
- 18mg • 50mg
- 20mg • 75mg

Bi-Est (50/50) (each)

- 2.5mg

Progesterone (each)

- 100mg

Testosterone (each)

- 12.5mg • 87.5mg
- 20mg • 100mg
- 25mg • 200mg
- 37.5mg
- 50mg



Do not put your practice or patients at risk by using a non-manufacturing pharmacy! Call American RX at **877-461-6335** or visit us at **myamericanrx.com** for account setup information, product questions and pricing.

HAIR REJUVENATION

BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.


LASERCAP COMPANY - Booth #230

1414 Riverside Dr., Lakewood, OH 44107, USA

Ph: 216-832-8930

Email: pkhemka@laserlap.us

Website: www.laserlap.com

LaserCap is a Low Level Laser therapy device for treating hair loss and promoting hair growth for women and men with thinning hair or at risk for thinning hair. Available By Physician Only. Visit us at booth 230. www.laserlap.com.



SUNETICS INTERNATIONAL - Booth #235

892 Seger Towne Rd., Ste. 44, Rockwall, TX 75032, USA

Ph: 888-266-2232 • F: 214-292-9600

Email: info@sunetics.com

Website: www.sunetics.com

The Sunetics Clinical Hair Growth Laser is the first & only device to be FCA 510(k) cleared for safety & efficacy to Grow Hair & Treat Hair Loss in BOTH men & women. This non-invasive, low-level laser device completely saturates the scalp as it delivers laser energy directly to the hair follicles. The 20 minute treatment is pain-free & has no side effects. The in-office clinical laser needs no technician for operation & is a hands-free & labor-free device. A drug-free & chemical-free therapy.

**HOLISTIC MEDICINES**

AMERICAN BIOTECH LABS - Booth #801

80 W. Canyon Crest Rd., Alpine, UT 84004, USA

Ph: 801-756-1000 • F: 801-756-5454

Email: stan@ablsilver.com

Website: www.ablsilver.com

Manufacturers of ASAP Health Max Products for Health Care Professionals. ASAP Health Max 10/30ppm -boosts the immune system and an alternative for promoting health. ASAP Health Max 24 Silver Gel for aiding natural healing. SilverSol Technology® - 300+ studies and safety data.



ARGENTYN 23® BY NATURAL-IMMUNOGENICS - Booth #424

3265 W. McNab Rd., Pompano Bch, FL 33069, USA

Ph: 888-328-8840 • F: 954-979-0838

Email: seth@n-icorp.com

Website: www.argentyn23.com

Argentyn 23® is the #1- selling professional silver brand in North America, carried by thousands of clinics nationwide. Since 2001, Argentyn 23® has provided practitioners with the safest, purest, and most effective silver (Bio-Active Silver Hydrosol™) ever developed, for both internal and external clinical use.


DESIGNS FOR HEALTH - Booth #229

980 South St., Suffield, CT 06078, USA

Ph: 860-752-7441

Email: orders@designsforhealth.com

Website: www.designsforhealth.com

For 24 years, we've been the HCP's trusted source for research-backed nutritional products of superior quality. By providing comprehensive support through our products, clinical education, & practice development programs, we maximize the potential for successful outcomes.

THE POWER OF ENERGY MEDICINE

Energy is the life force in all of us, and in various forms it is involved in regulating physiological processes. Energy Medicine is the diagnostic or therapeutic use of energy to either diagnose an electrical deficiency or stimulate tissue and cells to promote healing and repair.

CELLULAR ACCELERATION TO BRING WELLNESS TO YOUR PATIENTS

Energy medicine has been used since the beginning of human existence, but now there is a better way to tap into this powerful HEALING FORCE that resides within every one of us and activate it.

THE FUTURE IS NOW

ONDAMED works with the body's energy using a unique BIOFEEDBACK METHODOLOGY to locate and stimulate areas of physiological and psychological weaknesses with focused e/m fields. Tissue repair and regeneration begins immediately with focused frequencies unique to the individual.



THERAPEUTIC OPTIMIZATION WITH ONDAMED®

BRING THE POWER OF THIS NOVEL INVENTION TO YOU AND YOUR PATIENTS.



ONDAMED has been a significant asset to our medical center. It has allowed us to effectively deal with a number of chronic conditions that we were unable to with our other protocols. Our patients have had great success in managing pain, fatigue, stress, smoking and weight issues. It's great having ONDAMED working along side our other treatments in assisting patients to achieve their health goals.

- John C. Cline, MD, BSc, CCFPP



The vibrational frequencies that are determined by sophisticated equipment like ONDAMED is perhaps a search for real truth. This is the future of medicine.

Stephen T. Sinatra, MD, CNS

BOOTH #417

(((ONDAMED)))

a better way to make you better

www.ondamed.net

+1 845-534-0456/0



Cellular Aging Stops Here

Inside every cell of your body, there is a powerful clock ticking away. It's telling your body to age, wrinkle, gray, and slow down.

That clock is your telomeres, the caps at the end of each strand of DNA that protect it, like the plastic tips at the end of shoelaces.

Telomeres shorten over time, leaving your DNA vulnerable to damage and causing your cells to age. But now, there is a groundbreaking new way to help slow down, or possibly even reverse, age and lifestyle related telomere shortening.

Based on Nobel Prize winning science, TA-65® – a proprietary, all natural plant-based compound – can help maintain or rebuild telomeres.

TA-65® is available from T.A. Sciences® as TA-65MD® nutritional supplements, or in a new skin cream formulation.



"Maintaining good health through the stresses and strains of touring and singing with The Who requires enormous stamina. I was recommended TA-65® by a good friend and decided to try it. After taking TA-65® for one year I noticed considerable improvement in energy levels, cold and winter infections have been a rarity. Recently I took a 6 week break from taking the product, and noticed significant energy drop off."

Although to my knowledge the evidence of benefit to everyone is not proven, I have no doubt that this product works for me, I hope it does the same for you."

Roger Daltrey
Lead Singer, The Who

For more information about Telomere Biology or TA-65® products, please visit the T.A. Sciences® display booth #605 here at the A4M Conference, or our website at

www.tasciences.com



HANAU HEALTH GROUP - Booth #918

160 Sagamore Parkway W., West Lafayette, IN 47906, USA

Ph: 765-464-1545 • F: 765-464-2772

The Universal Cancer-Specific Marker Has Been Discovered! ENOX2 is the easily accessible therapeutic target.

HOLISTIC MEDICINES**NU CENTURY HERBS, INC. - Booth #109**

105 Washington St., Michigan City, IN 46360, USA

Ph: 877-473-7774 • F: 219-996-0110

Email: customerservice@nucenturyherbs.com

Nu Century Herbs has been researching the connection between herbs and wellness for over two decades. As a result of this dedication and commitment to health and wellbeing we have developed very effective herbal supplements. All of our supplements are 100% natural, quality produced in the USA and scientifically standardized for purity and potency.

**SUNETICS INTERNATIONAL - Booth #235**

892 Seger Towne Rd., Ste. 44, Rockwall, TX 75032, USA

Ph: 888-266-2232 • F: 214-292-9600

Email: info@sunetics.com

Website: www.sunetics.com

The Sunetics Clinical Hair Growth Laser is the first & only device to be FCA 510(k) cleared for safety & efficacy to Grow Hair & Treat Hair Loss in BOTH men & women. This non-invasive, low-level laser device completely saturates the scalp as it delivers laser energy directly to the hair follicles. The 20 minute treatment is pain-free & has no side effects. The in-office clinical laser needs no technician for operation & is a hands-free & labor-free device. A drug-free & chemical-free therapy.

**BIOTE® MEDICAL - Booth #830**

1825 W. Walnut Hill Ln., Ste. 100, Irving, TX 75038, USA

Ph: 877-992-4083 • F: 972-331-2562

Email: info@biotemedical.com

Website: www.biotemedical.com

BioTE® Medical is a bio-identical hormone replacement therapy training and support company. BioTE® Medical specifically trains practitioners on BHRT utilizing pellet technology and how to implement our unique model into medical practices.

**NATURE-THROID® - Booth #210**

28248 N. Tatum Blvd., Ste. B1-629, Cave Creek, AZ 85331, USA

Ph: 877-797-7997 • F: 623-879-8683

Email: sales@rlclabs.com

Website: www.nature-throid.com

Nature-Throid® and WP Thyroid® are natural hypothyroid medications containing both T4 and T3 hormones. Two natural thyroid solutions. Because no two people are alike. RLC Labs also manufactures a-Drenal and i-Thyroid, (iodine 12.5mg & 6.25mg) which can be used alone or with either Nature-Throid or WP Thyroid® for a well-rounded thyroid protocol.

**OPTIMUM HORMONE BALANCE - Booth #430**

6420 N. MacArthur Blvd., Ste. 100, Irving, TX 75039, USA

Ph: 972-893-6068 • F: 972-650-1072

Email: ryan.addison@optimumhormonebalance.com

Website: www.optimumhormonebalance.com

Optimum Hormone Balance developed a BHRT Patient Assessment and Management Portal in an EMR-like format, for use by Integrated Medicine Providers, to Advance the Practice and Management of Balanced BHRT, Thyroid and Anti-Aging Therapy.



HORMONE THERAPIES**SOTTOPELLE - Booth #119**

8412 E. Shea Blvd., Ste. 101, Scottsdale, AZ 85260, USA

Ph: 480-874-1515 • F: 480-991-8355

Email: response@sphrt.com

Website: www.sottopelletherapy.com

SottoPelle, a remarkable method of natural hormone therapy based on a proprietary bio-identical pellet hormone delivery system. After years of performing his own research, testing and analysis, he pioneered SottoPelle, a remarkable method of natural hormone therapy based on a proprietary bio-identical pellet hormone delivery system.

**THE SALERNO CENTER FOR COMPLEMENTARY MEDICINE - Booth #736**

161 Madison Ave., #7SW, New York, NY 10016, USA

Ph: 212-582-1700 • F: 212-582-1727

Email: info@salernocenter.com

Website: www.salernocenter.com

The Salerno Center for Complementary Medicine specializes in anti-aging, BHRT, thyroid hormones, IV vitamin therapy, environmental detox and weight management. We offer hands-on clinician and physician training for doctors and medical professionals around the globe. Along with vitamin formulas, Dr. Salerno and his staff are prepared to help others on their journey back to health and wellness.



Women's International Pharmacy

WOMEN'S INTERNATIONAL PHARMACY - Booth #729

2 Marsh Ct., Madison, WI 53718, USA

Ph: 800-279-5708 • F: 800-279-8011

Email: info@womensinternational.com

Website: www.womensinternational.com

Women's International Pharmacy specializes in custom compounded bio-identical hormone prescriptions for men and women. Prescriptions are individually compounded to meet patient specific needs as directed by a licensed medical practitioner.

**HYPERBARIC / OXYGEN THERAPIES****OXY HEALTH - Booth #218**

10719 Norwalk Blvd., Santa Fe Springs, CA 90670, USA

Ph: 562-906-8888 • F: 562-906-8885

Email: information@oxyhealth.com

Website: www.oxyhealth.com

OxyHealth is the world's leading retailer of portable hyperbaric chambers. With over 11,000 chambers currently in use, OxyHealth are the pioneers of the industry and remain at the forefront of safety, superior quality and cutting-edge design concepts.

**INSURANCE / FINANCE**

Calling all business owners.

AMERICAN EXPRESS OPEN - Booth #222

200 Vessey St., New York, NY 10285, USA

Ph: 212-640-2000 • F: 212-640-4000

Website: www.open.com

American Express® Business Cards give you access to benefits and can help you save money, gain control over your business expenses and earn valuable rewards.

**FIRST WORKING CAPITAL GROUP - Booth #910**

12423 NW 35th St., Coral Springs, FL 33065, USA

Ph: 954-369-0548 • F: 954-364-8599

Email: Info@FirstWorkingCapital.com

Website: www.FirstWorkingCapital.com

Our Company Assists Anti-Aging Clinics and Other Medical Practices in Offering Consumer Financing To Their Patients. We Have Several 0% Interest Free Programs Available With NO LOAN FEES To Your Practice. We Offer A-B-C Credit Patients The Ability To Finance Your Products and Services With Revolving Credit Lines and Term Loans Up To 60 Months. Credit Approvals Can Range From \$1000 Up To \$25,000.

3AD CONSULTING GROUP - Booth #711

3170 Stendhal, Laval, QC H7P 0C3, Canada

Ph: 888-507-0507

Email: info@3adconsulting.com

Website: www.3adconsult.com

3AD Consulting Group

Integrative Health and Wellness Best-Practices

Providing solutions for your pharmaceutical, nutraceutical and clinical needs.

CRYSTAL CLEAR DIGITAL MARKETING - Booth #334

6965 Piazza Grande Ave., Ste. 307, Orlando, FL 32835, USA

Ph: 888-611-8279 • F: 305-230-2350

Email: sales@crystalcleardm.com

Website: www.crystalcleardm.com

Crystal Clear Digital Marketing is committed to helping local medical practices Find, Serve & Keep more patients profitably. Offering a complete Digital Marketing System Crystal Clear does the work of 10 to 12 vendors all in one. From Search Engine Optimization, Search Engine Marketing, Social Media Engagement, Websites, Email Marketing, Mobile & Text Marketing, Patient Relationship Management and so much more Crystal Clear does most of the work so local practices don't have too.

**EC3 - Booth #837**

25 Old Mission Ave., Unit Lower, St. Augustine, FL 32084, USA

Ph: 877-536-4635 • F: 904-460-2582

Email: david@ec3health.com

Website: www.ec3health.com

EC3 was created to build and nurture lasting relationships between respected healthcare providers and reputable compounding pharmacies. Our passion is to support the patient trio, between the patient, pharmacy & physician, to maximize therapeutic outcomes! Our teams focus is to collaborate and integrate directly with practitioners, pharmacies and targeted vendors to offer medical marketing consulting solutions

**WEBTOMED - Booth #105**

2700 S. River Rd., Ste. 100, Des Plaines, IL 60018, USA

Ph: 866-999-8550 • F: 773-913-6478

Email: info@webtomed.com

Website: www.webtomed.com

WebToMed specializes in medical website design, e-Commerce, and internet marketing. We help anti-aging professionals, physicians, clinics, medical spas, labs and pharmacies market their services and sell their products online.

**YODLE - Booth #323**

50 West 23rd St., Ste. 401, New York, NY 10010, USA

Ph: 877-276-5104

Email: info@yodle.com

Website: www.yodle.com

Yodle, a leader in local online marketing, connects thousands of local businesses with consumers in a process so simple and cost-effective that business owners cant imagine any other way to advertise. Yodle has developed an integrated approach to singing up local businesses that are transitioning their marketing budgets online.

**AMIEA MED, INC. - Booth #1021**

111 N Orange Ave., Ste. 775, Orlando, FL 32801, USA

Ph: 877-628-7201 • F: 407-730-2952

Email: m.krone@amieamed.com

Website: www.amieamed.com

The Amiea Med REVIVE-mn is the leading clinical microneedling device on the market today. Manufactured in Germany, the REVIVE-mn stimulates collagen production with minimum convalescence and superior results.

MARKETING**MED SPA**

MED SPA

BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.


GOLDEN DOLPHIN VILLA - Booth #1010

17401 S.E. County Highway 475, Summerfield, FL 34491, USA

Ph: 352-245-4715

Email: goldendolphinja@gmail.comWebsite: www.goldendolphinvilla.com

Set on the lush north coast of the Dominican Republic, The Golden Dolphin celebrates exceptional fitness at every age with exercise, nutrition and mindful relaxation. Enjoy de-aging body treatments, yoga, cardio and strength workouts, one-on-one sessions with a personal trainer and on-site nutritionist. Feast on cuisine made with organic produce from our gardens and working farm. Exciting extras include cliff jumping and swimming with dolphins. The Golden Dolphin Villa: Embrace life vigorously.


INFINITE ALOE - Booth #437

4870 Fountain Ave., Los Angeles, CA 90029, USA

Ph: 323-906-2880 • F: 323-906-2920

Email: ops@ultracreate.comWebsite: www.infinitealoe.com

Infinite Aloe skin care is nut and paraben free and has organic aloe.


SOZA CLINIC - Booth #1022

677 West DeKalb Pike, 2nd Floor, King of Russia, PA 19406, USA

Ph: 855-700-7692 • F: 610-285-1312

Email: info@sozaclinic.comWebsite: www.sozaclinic.com

SOZA Clinics promote a safe, natural approach to weight loss based upon combining "real foods", quality supplements and personal support. Developed by Doctors and Medical professionals as a proven alternative to ineffective fad diets. Franchising opportunity information 1-855-700- SOZA.

MEDICAL EQUIPMENT / SUPPLIES

ACIGI RELAXATION / DR. FUJI - Booth #428

4399 Ingot St., Fremont, CA 94538, USA

Ph: 510-651-9088 • F: 510-651-6188

Email: drfuji@drfuji.comWebsite: www.drfuji.com

Bring you the best medical massage chairs, FUJIIRYOKI cyber-relax USA, the King of the medical massage chairs. Has your best interest in mind and guarantees a massage chair experience that will transcend you in to a tranquil state. Our medical massage chairs not only mimic the massage experience from a hand of a real masseuse, but also promotes a balanced and healthy lifestyle. Add value to pain management, doctors & staffs management. Great marketing device.


AMERICAN PHARMACEUTICAL INGREDIENTS - Booth #810

6650 Highland Rd., Waterford, MI 33431, USA

Ph: 248-552-7086 • F: 248-493-5936

Email: info@americanpharmaceuticalingredients.comWebsite: www.americanpharmaceuticalingredients.com

American Pharmaceutical Ingredients guarantees the highest quality ingredients at the lowest acquisition costs with comparable AWP's to any other national distributor.

ASTANZA LASER - Booth #122

1770 Saint James Pl., Ste. 505, Houston, TX 77056, USA

Ph: 800-364-9010

Email: info@astanzalaser.com

Website: www.AstanzaLaser.com



Astanza is the leader laser tattoo removal technology, helping practitioners remove tattoos with faster results and increased patient satisfaction. In addition to developing cutting-edge systems such as the Duality, Eternity, and Trinity lasers, Astanza offers its customers a complete range of training, marketing, and business consulting services specific to achieving success in the growing field of laser tattoo removal.



BIOSPACE INC - Booth #725

13850 Cerritos Corporate Dr., Ste. C, Cerritos, CA 90703, USA

Ph: 323-932-6503 • F: 323-932-6506

Email: usa@biospaceamerica.com

Website: www.biospaceamerica.com



BIOSPACE has revolutionized Body Composition Analysis through the InBody. The InBody allows for a quick test that prints a full page result sheet that provides users with their Body Fat %, BMR, Muscle balance, body water, progress graphs, and more.



BIOSRX, INC. - Booth #913

1300 E. Bidwell St., Ste.105, Folsom, CA 95630, USA

Ph: 800-280-9277 • F: 916-983-4968

Email: inquiries@biosrx.com

Website: www.biosrx.com



BiosRx, Inc. is a medical device manufacturer with its subsidiary compounding pharmacy, and cosmeceutical firm. We are the developers of LifeLike28—Rhythmic Dosing Protocol, the novel HRTicker Smart MDA, and CosmoGrade professional skincare.



FROM THE NATION'S PREMIER FULL SERVICE DIAGNOSTIC LABORATORY

✓ Innovative ✓ State of the Art ✓ Customizable

♂ Male Quick Check Panel Basic - (2780)

- 1) Testosterone, Free
- 2) Testosterone, Total
- 3) SHBG (Sex Hormone Binding Globulin)
- 4) Estradiol (E2)
- 5) DHEA-S
- 6) Cortisol

\$74.99

♀ Female Quick Check Panel Basic - (2781)

- 1) Testosterone, Free
- 2) Testosterone, Total
- 3) SHBG (Sex Hormone Binding Globulin)
- 4) Estradiol (E2)
- 5) DHEA-S
- 6) Progesterone
- 7) Cortisol

\$84.99

♂ Male Quick Check Panel Plus - (2778)

- 1) DHT
- 2) Testosterone, Free
- 3) Testosterone, Total
- 4) SHBG (Sex Hormone Binding Globulin)
- 5) Estradiol (E1)
- 6) Estradiol (E2)
- 7) DHEA-S
- 8) Cortisol

\$104.99

♀ Female Quick Check Panel Plus - (2779)

- 1) Estradiol (E1)
- 2) Estradiol (E2)
- 3) Estriol (E3)
- 4) SHBG (Sex Hormone Binding Globulin)
- 5) Testosterone, Free
- 6) Testosterone, Total
- 7) DHEA-S
- 8) Progesterone
- 9) Cortisol

\$104.99

AGE MANAGEMENT LAB TESTS RESULTS IN 24 HOURS!



**SIGN
UP
TODAY!**



CALL US TODAY!
(866) 720-8386

accessmedlab.com

MEDICAL EQUIPMENT / SUPPLIES

**BRILLIANT MEDICAL SOLUTIONS - Booth #131**

PO Box 4456, Deerfield Beach, FL 33442, USA

Ph: 888-838-0432 • F: 888-838-0432

Email: medicalsales@brilliantmedical.com

Website: www.brilliantmedical.com

Brilliant Medical Solutions delivers healthy results to medical practices. Cutting edge clinician-friendly medical devices & treatments to heal, diagnose & provide outstanding care for patients while improving the revenue of the practice. Our products include diagnostic solutions for cardiovascular, neurological, diabetes progression, psychological & DNA testing. We provide unique products to assist with treatment in pain management, wound healing, skin treatments & cardiovascular health.

**CHROMOGENEX US INC - Booth #528**

5872 Sterling Dr., Howell, MI 48843, USA

Ph: 517-586-4054 • F: 517-586-4055

Email: us-sales@chromogenex.com

Website: www.ilipo.com

Chromogenex has been the leading manufacturer of cutting-edge lasers in the aesthetics market for over 25 years. Our premiere products, the i-Lipo and i-LipoXcell, are the award-winning, non-surgical laser systems for body contouring and circumferential reduction.

**ECLIPSE AESTHETICS - Booth #634**

13988 Diplomat Dr., Ste. 160, Dallas, TX 75234, USA

Ph: 972-380-2911 • F: 972-380-2953

Email: sales@eclipsemed.com

Website: www.eclipseaesthetics.com

Eclipse Aesthetics, LLC is a leading supplier of aesthetic devices. Eclipse portfolio includes: Equinox™ fractional CO2 laser system, TRI-BEAM Q-Switched Nd:YAG Laser, Skinfinity RF, LEDA diode laser, EndyMed Pro™ with 3DEEP® radio frequency technology, SmoothCool Intense Light, Vibraderm microdermabrasion, Eclipse MicroPen skin needling, and Eclipse PRP. www.eclipseaesthetics.com; www.eclipsemicropen.com

**ELECTROMEDICAL PRODUCTS INT'L, INC. - Booth #637**

2201 Garrett Morris Pkwy., Mineral Wells, TX 76067, USA

Ph: 800-367-7246 • F: 940-328-0888

Email: alpha-stim@epii.com

Website: www.alpha-stim.com

Electromedical Products International, Inc. (EPI) is the world leader in cranial electrotherapy stimulation and microcurrent technology. Alpha-Stim®, EPI's prescription technology, has proven safe and efficacious in the treatment of pain, anxiety, insomnia and depression. The company offers toll-free clinical support at 1-800-FOR-PAIN (367-7246) and a 60-day loan option for licensed healthcare practitioners who would like to try it in their practice.

**EMVERA TECHNOLOGIES - Booth #322**

641 10th St., Cedartown, GA 30125, USA

Ph: 770-749-1530 • F: 888-361-7636

Email: jeff@emvera.com

Website: www.emvera.com

Emvera Technologies, LLC, designs, re-labels, distributes and sells cosmetic lasers to medical professionals for use in a variety of treatments. Our customer model centers on programs such as, transferable warranties, trade-ins, service, training, and financing.

**HARVEST TECHNOLOGIES CORP. - Booth #216**

40 Grissom Rd., Plymouth, MA 02360, USA

Ph: 508-732-7500 • F: 508-732-0400

Email: info@harvesttech.com

Harvest Technologies is a global leader in point-of-care cellular therapy products that process and concentrate multiple biologics using Smart PReP®2 System ; PRP, BMAC®, AdiPrep™.



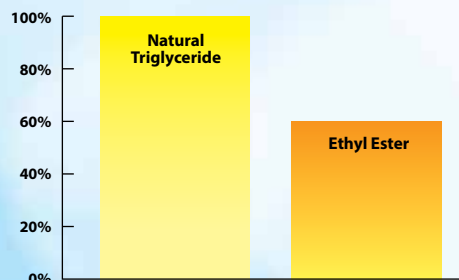
70%

MORE ABSORPTION WITH TRUGLYCERIDE

For superior bioavailability, the new TRUglyceride process preserves, purifies and concentrates fish oil the way nature intended—In the triglyceride form.



Superior Bioavailability of Triglyceride Compared to Regular Ethyl Ester



70% more absorption than ethyl ester.

Triglyceride form has a natural glycerol backbone for 70% more absorption than ethyl ester.¹

Ortho Molecular's TRUglyceride process concentrates EPA and DHA as bio-identical triglycerides for enhanced absorption.



Visit Orthomega820.com

For your free copy of the latest white paper: "Choosing the Best Marine-derived Omega-3 Products for Clinical Practice: An Evaluation of the Evidence"



For 25 years, Ortho Molecular Products has partnered with health care providers to provide the very best supplements with an unwavering commitment to efficacy.

**Evidence-Based Formulations. Uncompromising Raw Materials.
Patients Get Better Faster.**

To get started call 800.332.2351 or visit
OrthoMolecularProducts.com



1. Dyerberg J, Madsen P, Møller JM, Aardestrup I, Schmidt EB. Bioavailability of marine n-3 fatty acid formulations. Prostaglandins Leukot Essent Fatty Acids. 2010 Sep;83(3):137-41.)

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.



Advanced Testing in Metabolic Medicine

***We Offer More Tests Than Any Other
Metabolic Diagnostic Laboratory***

More Than 100 Tests Available

Offering:

- **Hormone Testing - Saliva, Urine And Blood**
- **Functional And Biomarker Testing**

48 - 72 Hr Turn Around Time

**VISIT US AT BOOTH 202 FOR MORE INFORMATION
WWW.AMLDX.COM 1-877-983-7863**

ITAMAR MEDICAL - Booth #1028

842 Upper Union St., Ste. 2, Franklin, MA 02038, USA

Ph: 888-748-2627 • F: 888-748-2628

Email: info@itamar-medical.com

Website: www.itamar-medical.com

EndoPAT by Itamar Medical Inc., the leading FDA cleared, office-based device for diagnosing endothelial dysfunction, providing the medical community with a powerful new tool for early detection of CVD, monitoring of intervention effectiveness and enhanced patient compliance.

RENUA MEDICAL™ - Booth #134

777 E. William St., Ste. 210, Carson City, NY 89701, USA

Ph: 775-246-1444 • F: 775-546-6156

Website: www.renuamedical.com

Renua Medical™ is a company of enduring strength. We have always worked diligently to improve the quality of life for healthcare providers and their patients with our innovative medical equipment technologies and innovative sciences. We strive to operate with the highest levels of integrity, which embodies our core principles of honesty, respect and trust.

SUNETICS INTERNATIONAL - Booth #235

892 Seger Towne Rd., Ste. 44, Rockwall, TX 75032, USA

Ph: 888-266-2232 • F: 214-292-9600

Email: info@sunetics.com

Website: www.sunetics.com

The Sunetics Clinical Hair Growth Laser is the first & only device to be FCA 510(k) cleared for safety & efficacy to Grow Hair & Treat Hair Loss in BOTH men & women. This non-invasive, low-level laser device completely saturates the scalp as it delivers laser energy directly to the hair follicles. The 20 minute treatment is pain-free & has no side effects. The in-office clinical laser needs no technician for operation & is a hands-free & labor-free device. A drug-free & chemical-free therapy.

FREEDOMPRACTICECOACHING.COM - Booth #705

1723 N. Loop 1604, Ste. 215, San Antonio, TX 78258, USA

Ph: 210-417-4268 • F: 210-417-4261

Want to find out how you can enjoy a practice that's not dependent on insurance? FPC is a turnkey coaching system that dramatically eases your learning curve and propels your practice to higher profits, usually overnight!

HCRC STAFFING - Booth #828

255 S. 17th St., Ste. 2703, Philadelphia, PA 19103, USA

Ph: 267-251-5275 • F: 800-263-1547

Email: brian@hcrstaffing.com

Website: www.hcrstaffing.com

The Leading Medical Staffing firm -Nationwide

HCRC Staffing prides ourselves on our ability to customize our staffing solutions to the specific needs of our clients. Our mission is to provide you with medical staff by the fastest means possible. HCRC staffing provides medical staffing solutions full time and part time nationwide.

LIQUID SMILE® - Booth #901

7437 S. Eastern Ave., Ste. 200, Las Vegas, NV 89123, USA

Ph: 888-954-7843 • F: 877-854-7843

Email: cindy@liquidsmile.com

Website: www.liquidsmile.com

LIQUID SMILE® PROFESSIONAL WHITENING PEN™ offers convenient, professional, affordable teeth whitening. Liquid Smile is easy to apply, takes less than one minute and contains the most powerful dosage of hydrogen peroxide (12%) of any paint-on whitener.



MISCELLANEOUS


New Voice for Health
energyDOTS®

NEW VOICE - ENERGYDOTS - Booth #1001

13 Blackswan, Irvine, CA 92604, USA

Ph: 949-551-3397 • F: 949-552-9041

Email: marcus@newvoice.net

Website: www.EMFFreedom.com

Cell Phone / EMF Harmonizers - Booth 1001

New Voice - energyDOTS wholesales products that harmonize the harmful electromagnetic radiation emitted from wireless devices. Author Dr. Elizabeth Plourde has published EMF Freedom: Solutions for the 21st Century Pollution. She will be available to answer questions and provide solutions for EMF sensitive patients. www.EMFFreedom.com (select: EMF Protection) / marcus@newvoice.net / (949) 551-3397.



Nutritional Frontiers
breaking through nutritional boundaries

NUTRITIONAL FRONTIERS - Booth #923

2419 Baldwick Rd., Pittsburgh, PA 15205, USA

Ph: 412-922-2566 • F: 412-922-9330

Email: info@nutritionalfrontiers.com

Website: www.nutritionalfrontiers.com

Stop by booth#923 for FREE SAMPLE WELLNESS KIT (\$49 Value) & try over 20 FREE samples including our new non gmo vegan Super Shake Smoothies. SHOW SPECIAL 20% off entire line, no minimums line drive special. We are the 1st concierge service in the professional wellness industry & provides 100% implementation support. If you want to double your nutritional wellness business, help more patients & increase profits then you need to call Nutritional Frontiers today! All products & services come w/100% money back guarantee!



REPAIR MAN

YOUNG-VITALITY CO. - Booth #224

6239 Bayberry St., Milton, FL 32570, USA

Ph: 850-564-1048

Email: fyoung@rprmn.com

Website: www.rprmn.com

The REPAIRMAN is a balanced blend of pharmaceutical grade amino acids to help maintain all day health.

**NUTRACEUTICALS**


A.C. GRACE
COMPANY
MADE IN U.S.A.

A. C. GRACE COMPANY - Booth #628

PO Box 570, Big Sandy, TX 75755, USA

Ph: 903-636-4368 • F: 903-636-4051

Email: info@acgrace.com

Website: www.acgrace.com

For over 50 years A.C. Grace Company has been providing tens of thousands of healthcare professionals in all fields of practice, their patients and consumers worldwide, a line of PURE Vitamin E products, including: mixed tocopherols, delta-tocotrienols, natural moisturizer, clinical topical, Krill oil and NEW UNIQUE OMEGA E+.™



Accelerated Intelligence
www.excelerol.com

ACCELERATED INTELLIGENCE INC. - Booth #735

2554 Lincoln Blvd., Ste.757, Venice, CA 90291, USA

Ph: 310-853 8996

Email: ben@excelerol.com

Website: www.excelerol.com

EXCELEROL - AMERICA'S #1 BRAIN SUPPLEMENT

Scientifically Formulated; Supports Memory, Focus, Concentration & Alertness.

Clinical studies show that the ingredients in Excelerol are key to improving your memory, concentration, and alertness. Powered by superior ingredients such as Citicoline & Phosphatidylserine, Excelerol is a non-prescription brain supplement that can help support your most valuable asset - your brain.




Advanced Natural Digestive Care

ADVANCED NATURALS - Booth #429

198 Alt 19 South, Palm Harbor, FL 34683, USA

Ph: 800-690-9988 • F: 866-594-5468

Email: support@advancednaturals.com

Website: www.advancednaturals.com

Advanced Naturals is a digestive care company that provides natural supplements to practitioners and physicians for their patients. We are especially known for our guaranteed high-potency, multiple stain, and delayed-release probiotics.

ARGENTYN 23® BY NATURAL-IMMUNOGENICS - Booth #424

3265 W. McNab Rd., Pompano Bch, FL 33069, USA

Ph: 888-328-8840 • F: 954-979-0838

Email: seth@n-icorp.com

Website: www.argentn23.com

Argentyn 23® is the #1- selling professional silver brand in North America, carried by thousands of clinics nationwide. Since 2001, Argentyn 23® has provided practitioners with the safest, purest, and most effective silver (Bio-Active Silver Hydrosol™) ever developed, for both internal and external clinical use.

NUTRACEUTICALS**BIO-TECH PHARMACAL, INC. - Booth #535**

PO Box 1927, Fayetteville, AR 72702, USA

Ph: 800-345-1199 • F: 479-443-5643

Email: customerservice@bio-tech-pharm.com

Website: www.biotechpharmacal.com

Bio-Tech Pharmacal, Inc., established in 1984, is a fully insured, state/federally licensed, FDA registered, GMP inspected nutraceutical manufacturer specializing in high quality hypo-allergenic preventative health care products, shipped to physicians, hospitals, pharmacies worldwide. Bio-Tech Pharmacal partners with over 60 prestigious institutions supplying products for clinical research and has introduced many innovative products including D3-50,000 IU.

**BIOGENESIS NUTRACEUTICALS - Booth #835**

18303 Bothell-Everett Hwy., Ste.110, Mill Creek, WA 98012, USA

Ph: 866-272-0500 • F: 425-485-3518

Email: contact@bio-genesis.com

Website: www.bio-genesis.com

BioGenesis products are formulated from a combination of scientific research (evidence-based medicine), traditional use of natural substances, & the art of medicine. This is why BioGenesis is one of the most rapidly growing nutraceutical companies in the nation. We consider you, the clinician, part of our innovative team. The BioGenesis family is made up of clinicians (MD, DO, DC, ND, LAC, dietitians, ARNP, nutritionists, herbalists) from all over the country that order & prescribe our products to their patients.

**COMPLEMENTARY PRESCRIPTIONS™ - Booth #403**

10439 Double R Blvd., Reno, NV 89521, USA

Ph: 888-401-0967 • F: 714-921-1639

Email: mail@cpmedical.net

Website: www.cpmedical.net

Complementary Prescriptions™, ProThera®, and Klaire Labs® have merged to form a global, GMP certified manufacturer exclusively serving healthcare professionals. We offer 400+ high quality, innovative formulas. Private labeling/custom manufacturing also available.

**CUSTOMVITE® / NUTRILAB - Booth #336**

One University Plaza, Hackensack, NJ 07601, USA

Ph: 201-880-7152 • F: 201-820-3557

Email: service@nutrilab.com

Website: www.customvite.com

CustomVite® is the leading provider of personalized nutritional supplements.

By combining data from laboratory test results and medical history questionnaires, CustomVite® nutritionists, in collaboration with affiliated practitioners, design customized supplements to address the nutritional deficiencies of each patient. We are proud to offer high quality ingredients that have been tested for potency and purity. Additionally, we offer all affiliated practitioners a commission on each order placed.

**DAVINCI LABORATORIES - Booth #629**

20 New England Dr., Ste.10, Essex Junction, VT 05452, USA

Ph: 802-878-5508 • F: 802-878-0549

Email: info@davincilabs.com

Website: www.davincilabs.com

DaVinci works closely with holistic practitioners at the top of their field, helping us to develop cutting edge health supportive formulas.



NUTRACEUTICALS**DESERET BIOLOGICALS, INC. - Booth #728**

469 W. Parkland Dr., Sandy, UT 84070, USA

Ph: 801-563-7448 • F: 801-563-7455

Email: clair@desbio.com

Website: www.desbio.com

For 25 years DesBio has provided the latest in homeopathic and nutraceutical medicine to healthcare practitioners. Our 300+ formulations combine the power of homeopathics, nutritionals, and botanicals for unsurpassed effectiveness.

**DOCTORS SUPPLEMENT STORE - Booth #335**

1724C Westpark Center Dr., St. Louis, MO 63026, USA

Ph: 636-326-7100 • F: 877-903-9290

Email: dpreis@doctorssupplementstore.com

Website: www.doctorssupplementstore.com

Let Doctors Supplement Store show you the easiest and most profitable way to get the supplements you recommend into your patients' hands. After we set up your personalized web store, you simply send your patients, and we take care of the rest. Setup is fast, FREE and easy! Select from our large array of professional brands. Increase sales with 24x7 online access for patients and our popular Auto Ship program!

**DOUGLAS LABORATORIES - Booth #811**

600 Boyce Rd., Pittsburgh, PA 15205, USA

Ph: 800-245-4440 • F: 888-245-4440

Email: customerservice@douglaslabs.com

Website: www.douglaslabs.com

Trust Douglas Laboratories science-based dietary supplements manufactured exclusively for healthcare professionals. We are proud to offer you the largest and most innovative selection of premium-quality products and formulations to help promote the wellness of your patients.

**FOREVER HEALTH™ - Booth #929**

3600 W. Commercial Blvd., Ft. Lauderdale, FL 33306, USA

Ph: 954-766-8433 • F: 954-771-2827

Email: docnetwork@foreverhealth.com

Website: www.foreverhealth.com

Forever Health™ is healthy for your practice! W/ Suzanne Somers as its nat'l spokesperson, our Physician Network makes it possible for prospective patients to connect w/you — a qualified physician who specializes in BHRT. Forever Health passionately believes that everyone deserves quality-of-life treatment. As a member of the Forever Health Physician Network, your personalized information will appear on the Forever Health website & make you highly visible to potential patients. Join now!

**FREZZOR - Booth #804**

32 Willowhurst, Irvine, CA 92602, USA

Ph: 949-300-6294

Email: rfehrenbach@cox.net

Website: www.takefrezza.com

Wellness shakes and Omega-3 from New Zealand for those that realize the need to understand and manage their health and wellbeing. FREZZOR uses the cleanest and purest ingredient from New Zealand. The Omega-3 is extracted from Greenlip mussel oil, which is more powerful than fish oil and krill oil.

GLOBAL LIFE REJUVENATION - Booth #117

161 E. Main St., Denville, NJ 07834, USA

Ph: 973-627-7888 • F: 973-627-4158

Email: dglaab@globalliferejuvenation.com

Website: www.globalliferejuvenation.com

Leader in Anti-Aging medicine, medical weight loss, practice development and patient education. Creating a national physicians network. Marketing each location, educating patients and scheduling appointments, connecting doctors to patients and patients to state-of-the-art compounding pharmacies.



HEMPMEDSPX™ - Booth #305

4901 Morena Blvd., Ste.701, San Diego, CA 92117, USA

Ph: 866-273-8502

Email: info@hempmedspx.com

Website: www.hempmedspx.com

HempMedsPX™ is a corporate portfolio company of Medical Marijuana, Inc. and the exclusive master distributor and contracted marketing company for CannaVest Corp. and Medical Marijuana Inc. HempMedsPX™ provides mainstream marketing, sales, customer service, and logistics for health and wellness products that are industrial hemp-based, cannabidiol (CBD)-rich, and available nationwide.



ICA HEALTH - Booth #422

PO Box 26021, Tucson, AZ 85726, USA

Ph: 888-237-3627 • F: 520-514-1917

Email: ryan@icahealth.com

Website: www.icahealth.com

Supplements and protocols designed by Dr. James L. Wilson for healthcare providers who want clinically effective results that address the source, not just symptoms, of stress, adrenal fatigue, blood sugar metabolism, digestive health and immune function.



**A Scientific Approach To BHRT using
SottoPelle® Therapy**

Pellet implants are preferred by a select group of doctors who understand the increased benefit to patients and the personal benefit of practice autonomy.

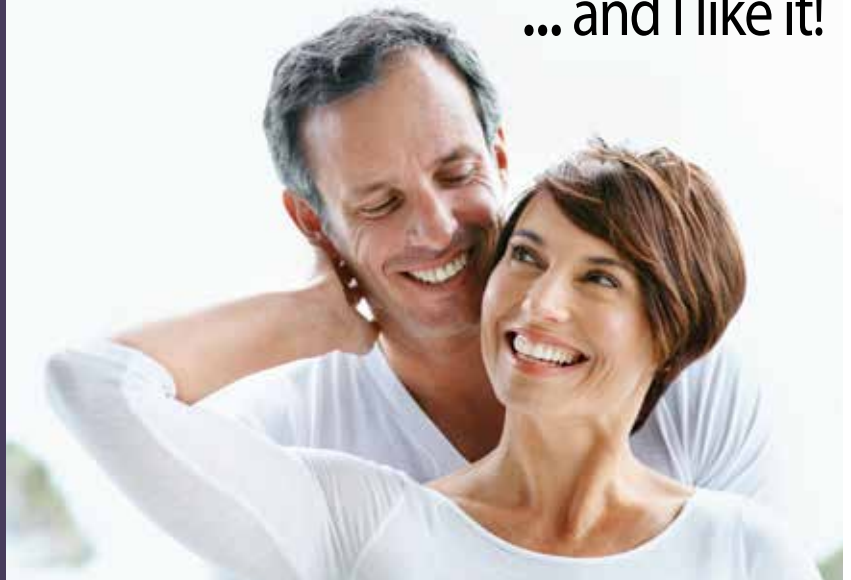
Stop by our booth to learn how you can add thousands of dollars to your practice through the Science of SottoPelle® and hear from Dr. Tuteria about his patent-pending, innovative dosing site; or contact us at response@sphrt.com

or at **877.4SOTTOPELLE**
(877.476.8867)

www.sottopelletherapy.com



**I've got you under my skin
... and I like it!**



Precision is our benchmark; your well-being, our passion.®

Life...Change... Naturally®

NUTRACEUTICALS**METAGENICS, INC. - Booth #423**

25 Enterprise, Ste. 200, Aliso Viejo, CA 92656, USA

Ph: 800-692-9400

Website: www.metagenics.com

Metagenics is a global life sciences company focused on improving health. Since 1983, Metagenics has helped health care professionals and their patients throughout the world find solutions to their most pressing health concerns with science-based medical foods, nutraceuticals, and lifestyle medicine programs.

**NEWTROPIN INC. - Booth #806**

3415 W Woolbright Rd., Boynton Beach, FL 33436, USA

Ph: 866-206-1806 • F: 561-784-4575

Email: info@newtropin.com

Newtropin Inc. is a premier physician-based nutraceutical company that offers a variety of weight-loss, anti-aging and vitamin supplements to meet the diverse treatment needs of your patients. In addition to supplements, we also offer private labeling and assist in the development process from conception to production.

**NUMEDICA - Booth #817**

9503 E. 55th Pl., Tulsa, OK 74145, USA

Ph: 800-869-8100 • F: 877-270-2005

Email: mail@numedica.com

Website: www.numedica.com

Power Greens® Premium is NuMedica's state-of-the-art, great tasting greens and superfood drink mix, made from the highest quality of fresh fruits & vegetables available, specifically selected for their nutrient-rich properties. It supplies as least 30% of the recommended daily value of vitamins & minerals per serving. It's loaded with energizing phyto-nutrients, certified organic wholefoods & plant extracts. Getting your fruits, vegetables, vitamins & minerals has never tasted so good!

**OMAPREM - Booth #611**

3026 SW 42nd St., Ste D2, Hollywood, FL 33312, USA

Ph: 800-613-6269 • F: 877-254-8822

Email: support@omaprem.com

Website: www.omaprem.com

OMAPREM, an All-Natural Supplement, is the Next Generation beyond Fish Oil. Not only does OMAPREM contain health promoting Omega 3 fatty acids DHA and EPA, the two essential fatty acids found in most ordinary Fish Oil products, but it is the ONLY product containing over 30 essential fatty acids. This diverse combination of essential fatty acids is what makes OMAPREM so unique and is backed by over 25 years of multiple clinical studies.

**ORTHO MOLECULAR PRODUCTS, INC. - Booth #701**

1991 Duncan Pl., Woodstock, IL 60098, USA

Ph: 800-332-2351 • F: 800-476-4664

Email: contact@ompimail.com

Website: www.OrthoMolecularProducts.com

Ortho Molecular Products has been manufacturing dietary supplements with unsurpassed efficacy for 25 years. An indispensable partner to health care professionals, Ortho Molecular Products is an innovation leader, deeply committed to their long-standing pledge to honor the doctor-patient relationship. Ortho Molecular Products believes evidence-based, lifestyle and nutritional therapies will transform the practice of medicine.

PATH Medical

EXECUTIVE HEALTH PROGRAM



Dr. Braverman is a graduate of NYU Medical School. Now, director of integrative medicine at a local hospital, he is an acknowledged expert in brain-based medicine who lectures to and trains doctors internationally in Anti-Aging Medicine.

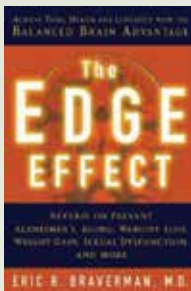


THE PATH TO TOTAL HEALTH

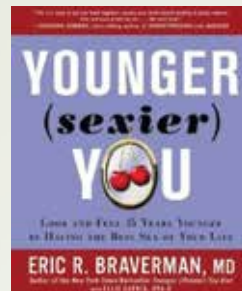
Come enjoy the luxurious suites of PATH Medical in New York City and treat yourself to the most complete brain, mind, body assessment. Age Printing every part of your body. This may allow you to live at your peak to 120 years old.



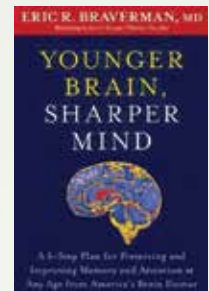
We offer the most comprehensive anti-aging work up on America. By performing our two day executive work up including blood tests, brain mapping and bone scans, we will be able to guide you on the PATH to good health. We also specialize in Menopause and Andropause treatments, and we have had great success with diabetes patients bringing their hemoglobin A1c level down 5-8 points in many cases.



"You can increase your memory and attention as you age."



"Grow new brain cells while getting thin."



"You are only as young as your oldest pain."

Take the Age Print Quiz online at
<http://pathmed.com/brain-health/take-the-age-print-quiz>

304 Park Avenue South-6th Floor New York, NY 10010
CALL 888-304-PATH to schedule today!

Regenerate Your Practice.

Validated In-Office Stem Cell Therapy: The Next Step in Anti-Aging



Program Benefits:

- Experience hands-on training with real patients
- Learn techniques to isolate adipose stem cells, bone marrow stem cells, and platelet rich plasma
- Join US IRB trials for osteoarthritis and other degenerative diseases
- Maintain regulatory compliance in an office-based setting

Join Dr. Sharon McQuillan and leading experts to learn how to provide the medicine of tomorrow to your patients today

**FRIDAY
MAY 16, 2014
6:45 PM**

Visit
Booth 900
For Details

Ageless
REGENERATIVE INSTITUTE

WWW.AGELESSSTEMCELLTRAINING.COM

T. 855-274-2355 • INFO@AGELESSREGEN.COM

NUTRACEUTICALS**PATIENT ONE - Booth #917**

120 Broadhollow Rd., Ste #2, Farmingdale, NY 11735, USA

Ph: 631-390-9669 • F: 631-270-9302

Email: leah@patientoneformulas.com

Website: www.patientoneformulas.com

Available exclusively through health care practitioners, Patient One is brought to you by MediNutritionals Research, an industry leader in formulating and manufacturing nutritional supplements. Patient One products span from Cardiovascular and Immune Support to Digestive and Healthy Aging.

**PREVENTION PHARMACEUTICALS, INC. - Booth #130**

142 Temple St., Ste. 205, New Haven, CT 06510, USA

Ph: 888-677-5453 • F: 267-247-5029

Email: omax3hcp.customer@prevpharm.com

Website: www.omax3hcp.com



Omax3®, The Ultra-Pure Omega-3 Supplement® was specifically formulated by physicians from Yale University to achieve a balance of EPA:DHA (4:1) that supports a proper inflammatory response. Omax3, the purest omega-3, with no contaminants or fillers!

**PROTOCOL FOR LIFE BALANCE - Booth #113**

244 Knollwood Dr., Bloomington, IL 60108, USA

Ph: 877-776-8610 • F: 855-833-9012

Email: sales@protocolforlife.com

Website: www.protocolforlife.com

Protocol For Life Balance is a well-researched, potent, and efficacious brand of high-quality dietary supplements and natural products sold exclusively through licensed healthcare practitioners. Protocol For Life Balance offers many unique formulas and products. Our mission is simply to provide quality products that lead to healthy patients and satisfied physicians.

**QUINCY BIOSCIENCE - Booth #730**

301 S. Westfield Rd., Ste. 200, Madison, WI 53717, USA

Ph: 888-895-6463 • F: 608-237-2124

Email: cmcvay@quincybioscience.com

Website: www.prevagenpro.com



Quincy Bioscience has developed Prevagen Professional containing the unique ingredient apoaequorin which was originally discovered in a species of jellyfish. Prevagen has been clinically shown to improve memory, word recall and learning within 30-90 days in large, double-blind, placebo-controlled study. Prevagen Professional (40mg) is available exclusively through healthcare practitioners and is the only supplement of its kind.

**REJUVENATION SCIENCE - Booth #719**

811 N. Catalina Ave., Ste. 3208, Redondo Beach, CA 90277, USA

Ph: 888-737-3588 • F: 310-374-9839

Email: info@rejuvenation-science.com

Website: www.rejuvenation-science.com

Sophisticated supplements for anti-aging and regenerative medicine practices with top-rated Maximum Vitality® multivitamin. Manage systematic inflammation, lipid, BP, and weight loss with Bio3ga™ krill oil, omega-3 fish oil, anti-oxidants and metabolic optimizer protocol for enhanced cardio, kidney and liver function with carnitine, ribose, CoQ10, ubiquinol. Advanced joint, vision, GI support, and specialty products: Avemar, PsoriaGold.



NUTRACEUTICALS**RESTORATIVE FORMULATIONS - Booth #919**

93 Barre St., Ste. 1, Montpelier, VT 05602, USA

Ph: 800-420-5801 • F: 800-621-1878

Email: info@restorative.com

Website: www.restorative.com

Setting the standard for herbal purity, 95% of our botanicals and botanical extracts are 'certified organic' or wildcrafted. Restorative Formulations developed highly concentrated, therapeutic dosages to give your patients rapid results. Every batch is independently laboratory tested (no random testing) and, GMP Manufactured.

**T.A. SCIENCES - Booth #605**

420 Lexington Ave., Ste. 2900, New York, NY 10070, USA

Ph: 212-588-8805 • F: 212-588-0058

Email: info@tasciences.com

Website: www.tasciences.com

T.A. Sciences is a consumer health and wellness company dedicated to discovering and creating groundbreaking products through telomerase activation. Based on the science of telomere biology, the company is solely focused on research-based solutions to rejuvenating the aging process at the cellular level.

**THE SALERNO CENTER FOR COMPLEMENTARY MEDICINE - Booth #736**

161 Madison Ave., #7SW, New York, NY 10016, USA

Ph: 212-582-1700 • F: 212-582-1727

Email: info@salernocenter.com

Website: www.salernocenter.com

The Salerno Center for Complementary Medicine specializes in anti-aging, BHRT, thyroid hormones, IV vitamin therapy, environmental detox and weight management. We offer hands-on clinician and physician training for doctors and medical professionals around the globe. Along with vitamin formulas, Dr. Salerno and his staff are prepared to help others on their journey back to health and wellness.

**VITAL NUTRIENTS - Booth #723**

45 Kenneth Dooley Dr., Middletown, CT 06457, USA

Ph: 888-328-9992 • F: 888-328-9993

Email: orders@vitalnutrients.net

Website: www.vitalnutrients.net

Vital Nutrients is a professional supplement manufacturer widely recognized as The Industry Leader in Quality Assurance. Our Quality Assurance program exceeds both regulatory and industry standards by conducting independent third party testing on all raw material and finished product, to ensure full potency, authenticity and stability.

**STEM CELL THERAPIES****ARGENTYN 23® BY NATURAL-IMMUNOGENICS - Booth #424**

3265 W. McNab Rd., Pompano Bch, FL 33069, USA

Ph: 888-328-8840 • F: 954-979-0838

Email: seth@n-incorp.com

Website: www.argentyn23.com

Argentyn 23® is the #1- selling professional silver brand in North America, carried by thousands of clinics nationwide. Since 2001, Argentyn 23® has provided practitioners with the safest, purest, and most effective silver (Bio-Active Silver Hydrosol™) ever developed, for both internal and external clinical use.

BIOREGENERATIVE SCIENCES PRODUCTS - Booth #722

2632 SE 30th Pl., Ocala, FL 34471, USA

Ph: 352-362-3173 • F: 888-284-6280

Website: www.brsproducts.com

BioRegenerative Sciences, leader in advanced stem cell-based Cosmeceuticals & Therapeutics provides clinically proven solutions for Anti-Aging Skin Care, Hair Thinning, Lash & Brow Thinning. All products contain Adult Human Stem Cell-based S2RM Core Technology.

STEM CELL THERAPIES

NUTRICOS CEUTICALS, INC. - Booth #916

156 Mott St., Basement, New York, NY 10013, USA

Ph: 347-331-2408 • F: 212-226-8328

Email: info@nutricosceuticals.com

Website: www.trzell.com

Nutricos Ceuticals, Inc. offers a wide array of nutritional supplement products for Cellular Therapy. With years of research experience in Cellular Therapy, Nutricos Ceuticals has meticulously developed the advance formula for its products, and is making sure to accomplish significant rejuvenation and anti-aging benefits to enhance the health of every individual.



REHEALTH - Booth #737

1239 Victoria St., Costa Mesa, CA 92627, USA

Ph: 800-461-6980

Website: www.rehealth.com

Dedicated to improving quality of life through the use of cellular therapy. COFEPRIS (FDA equivalent) approved facilities in Guadalajara and Los Cabos, Mexico.


TIMESLIP SOLUTIONS / RG-CELL® - Booth #129

623 9th St., West Babylon, NY 11704, USA

Ph: 800-805-0207

Email: info@rg-cell.com

Website: www.rg-cell.com

RG-Cell is a professional grade stem cell support serum designed for clients who are concerned about age management and visibly reducing the signs of aging.


BODYSITE WELLNESS - Booth #922

6586 Hypoluxo Rd., Ste.256, Lake Worth, FL 33467, USA

Ph: 561-247-3839 • F: 561-828-0157

Email: info@bodysite.com

Website: www.bodysite.com

Deliver better care and run a more profitable practice by delivering individualized anti-aging, weight loss and wellness information and support to your patients between office visits. Patients automatically receive your guidance each day on your private label, cloud-based wellness portal to stay in touch with you and stay on track. Your staff easily accesses and manages progress and compliance in one powerful but simple cloud-based interface. Easy turnkey solution for your practice.

**WEIGHT MANAGEMENT**


WEIGHT MANAGEMENT**FREZZOR - Booth #804**

32 Willowhurst, Irvine, CA 92602, USA

Ph: 949-300-6294

Email: rfehrenbach@cox.net

Website: www.takefrezza.com

Wellness shakes and Omega-3 from New Zealand for those that realize the need to understand and manage their health and wellbeing. FREZZOR uses the cleanest and purest ingredient from New Zealand. The Omega-3 is extracted from Greenlip mussel oil, which is more powerful than fish oil and krill oil.

**HEALTHY HABITS - Booth #935**

26 S. Baltic Pl., Meridian, ID 83642, USA

Ph: 877-581-4484 • F: 208-402-5987

Email: info@healthyhabits.com

Website: www.healthyhabits.com

Healthy Habits is a medical consulting firm with over 30 years of experience. We can show you how to bring in new patients and increase revenue as well as save you up to 80% off of lab fees. We offer training and support in implementation of Medical Weight Loss, Bio-Identical Hormone Therapy and Low-T for Men. We are the only consulting firm that includes all three services at a competitive price. We know how important it is to eliminate obesity as well as age-related conditions and symptoms.

**HYBRID SNACK SYSTEM - Booth #114**

8927 Hypoluxo Rd., Ste. A4 #157, Lake Worth, FL 33467, USA

Ph: 954-868-5152

Email: chris@hybridsnacks.com

Website: www.hybridsnacks.com

Hybrid Snack System provides people with delicious, complete and nutritionally balanced snacks and supplements. Designed and packaged for "on the go" with NO artificial ingredients, its Gluten Free, Soy Free and Low in Sugar. Hybrid Snack System satisfies your hunger, thirst, nourishes your body and gives you long lasting energy.

**SOZA CLINIC - Booth #1022**

677 West DeKalb Pike, 2nd Floor, King of Russia, PA 19406, USA

Ph: 855-700-7692 • F: 610-285-1312

Email: info@sozaclinic.com

Website: www.sozaclinic.com

SOZA Clinics promote a safe, natural approach to weight loss based upon combining "real foods", quality supplements and personal support. Developed by Doctors and Medical professionals as a proven alternative to ineffective fad diets. Franchising opportunity information 1-855-700-SOZA.

**THE SALERNO CENTER FOR COMPLEMENTARY MEDICINE - Booth #736**

161 Madison Ave., #7SW, New York, NY 10016, USA

Ph: 212-582-1700 • F: 212-582-1727

Email: info@salernocenter.com

Website: www.salernocenter.com

The Salerno Center for Complementary Medicine specializes in anti-aging, BHRT, thyroid hormones, IV vitamin therapy, environmental detox and weight management. We offer hands-on clinician and physician training for doctors and medical professionals around the globe. Along with vitamin formulas, Dr. Salerno and his staff are prepared to help others on their journey back to health and wellness.



Welcome to Your Pharmacy



Pharmacy Solutions provides customized medication solutions for your patient by working hand-in-hand with you, their healthcare provider. We provide unique services to heal the whole person by taking an integrative and caring approach to patient care.

We accept **OVER 2000** national insurance plans!

► SPECIALTY PHARMACY

► COMPOUNDED MEDICATIONS

- Bio-Identical Hormones
- Pain Gels
- Skin Care and Cosmeceuticals
- Hospice Care
- Dental Compounding
- Pediatric Compounding
- Veterinary Compounding

► MEDICATION THERAPY MANAGEMENT

► OTHER SERVICES

- On-line ordering for prescriptions and all items sold in our retail store

► AWARDS AND HONORS

- 2008 GNP Pharmacist of the Year Award
- 2007 Good Government Award, Michigan Pharmacists Association
- 2006 Most Influential Women in Business Award, *Ann Arbor Business Review Weekly*
- 2005 Life Time Professional Contribution Award, Southeastern Michigan Society of Health-System Pharmacists
- 2003 Pharmacist of the Year Award, Southeastern Michigan Society of Health-System Pharmacists



5204 Jackson Road, Ste. C, Ann Arbor, MI 48103
TOLL-FREE 1.877.797.6567
PHONE 1.734.821.8000
TOLL-FREE FAX 1.877.274.3919
FAX 1.734.821.8001



www.pharmacysolutionsonline.com

PCCA: Delivering the science behind the compounds you prescribe.

Join us to learn how you can connect to a network of 4,000+ compounding pharmacies, all with exclusive access to the most studied, proven bases, quality APIs and consulting support.

Product Theater

Friday, May 16 • 1:00 p.m. • Exhibit Hall

"Improving Outcomes with PCCA's Special Micronized Progesterone in VersaBase® Cream" presented by Sara Hover, RPh

PCCA's Special Micronized Progesterone meets the highest-quality standards and also excels in an additional category: particle size. Our VersaBase Cream, specially designed for hormone application, has been proven to deliver four times more progesterone than the commercial base Vanicream®. Come find out why these factors make a difference in patient outcomes.

Sponsored Workshop

Friday, May 16 • 6:45 – 8:30 p.m.

Enjoy hors d'oeuvres and cocktails while learning about PCCA PracaSil™-Plus, a unique topical anhydrous silicone base that can be used alone or prescribed with a variety of active pharmaceutical ingredients to enhance the treatment of scars, including keloids and stretch marks.

Stop by the PCCA Booth

Learn more about the PCCA network and get free samples of our innovative bases for your transdermal and topical prescriptions.



800.331.2498 | pccarx.com



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

ADVERTISER	WEBSITE	PAGE #
Access Diagnostic Networks	www.accessmedlab.com	91
Ageless Regenerative Institute	www.trainingstemcells.com	102
American Rx	www.myamericanrx.com	83
AML Diagnostics	www.amldx.com	95
BioTE Medical	www.biotemedical.com	75
BodyLogicMD	www.bodylogicmd.com	26, 27
Central Drugs Compounding Pharmacy	www.centraldrugsrx.com	110
Complementary Prescriptions	www.cpmedical.net	31
Genova Diagnostics, Inc	www.gdx.net	7, 66
Hallandale Pharmacy	www.hallandalerx.com	57
Health Diagnostic Laboratory	www.myhdl.com	39
HempMedsPx	www.w.com	9, 78
Life Length	www.lifelength.com	61
Medaus Pharmacy	www.medaus.com	13
Metagenics, Inc.	www.metagenics.com	44
Nature-Throid	www.nature-throid.com	77
OMAPREM	www.omaprem.com	31
ONDAMED	www.ondamed.net	85
Ortho Molecular Products, Inc.	www.orthomolecularproducts.com	93
PATH Medical	www.pathmedical.com	101
PCCA	www.pccarx.com	68, 108
Pharmacy Solutions.	www.pharmacyolutionsonline.com	107
SottoPelle	www.sottopelletherapy.com	99
SpectraCell Laboratories	www.spectracell.com	15
T.A. Sciences	www.tasciences.com	86
University Compounding Pharmacy	www.ucprx.com	11, 70
ZRT Laboratory LLC	www.zrtlab.com	19

Our **Value** is in our **Integrity**



- ✓ Products
- ✓ Processes
- ✓ People

P 877 447 7077
F 562 694 3869
E info@CentralDrugsRx.com
www.CentralDrugsRx.com



Your one-stop source for Sterile IV Products: Vitamins, Minerals, and Amino Acids

Quality and integrity are at the heart of Central Drugs' core values. Maintaining the safety of our patients and the trust of our prescribers is a responsibility that we take very seriously.



See **30** New Patients in **30** Days

Call or visit **Booth 617** to ask how to get this kit (\$495 value) for **FREE!**

PLUS

Sign up for our free e-newsletter, and we'll send you our whitepaper, *How to Market Your Practice: Six Digital Marketing Tools to Attract New Patients* as a free gift. Go to

CentralDrugsRx.com/sixdigitaltools



Inside:

Women's Medications Guide
Men's Medications Guide Lab
Patient Questionnaires Values
Lab Values Chart for Women
Lab Values Chart for Men
Symptom Evaluation Chart
Lobby Brochures
Patient Self-Tests
Patient Forms
BHRT Flyer
Rx Pads



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

2015 EVENT SCHEDULE



DELRAY BEACH, FL
JUNE 26-28, 2014
DELRAY BEACH MARRIOTT

- FELLOWSHIP MODULE



PHOENIX, AZ
SEPTEMBER 10-13, 2014
PHOENIX SHERATON
DOWNTOWN

- BOARD CERTIFICATION EXAMS
- FELLOWSHIP MODULES
- BHRT SYMPOSIUM



BOSTON, MA
SEPTEMBER 20-21, 2014
HARVARD MEDICAL SCHOOL

- HEALTHY AGING
THERAPEUTICS SYMPOSIUM



CHICAGO, IL
SEPTEMBER 26-27, 2014
CHICAGO MARRIOTT
DOWNTOWN

- AUTOIMMUNE SYMPOSIUM



NEW ORLEANS, LA
OCTOBER 16-18, 2014
SHERATON NEW ORLEANS HOTEL

- FELLOWSHIP MODULES
- IV SYMPOSIUM



**VANCOUVER, BRITISH
COLUMBIA CANADA**
NOVEMBER 6-8, 2014
FOUR SEASONS HOTEL VANCOUVER

- BHRT SYMPOSIUM



LAS VEGAS, NV
DECEMBER 10-13, 2014
VENETIAN/PALAZZO RESORT

- ANNUAL WORLD CONGRESS
- BOARD CERTIFICATION EXAMS
- FELLOWSHIP MODULES



THE FUTURE OF MEDICINE TODAY

ESTABLISHED 1992, A4M REPRESENTS 26,000 PHYSICIANS & SCIENTISTS FROM 120 COUNTRIES WORLDWIDE

REGISTER NOW!

THE 22nd ANNUAL WORLD CONGRESS ON
ANTI-AGING, REGENERATIVE & AESTHETIC MEDICINE

DECEMBER 11-13, 2014

VENETIAN/PALAZZO RESORT • LAS VEGAS, NV

**Ask Us
About Special
Pricing**
AVAILABLE THIS WEEKEND ONLY!



TOPICS TO INCLUDE:

- Metabolic Syndrome
- Hormonal Health
- Functional Neurology
- The Science of Stem Cells
- Clinical & Aesthetic Advancements
- Nutrient Strategies
- Endocrine System
- Lifestyle Factors

It's Not Age Management... It's Lifestyle Management

For EARLY-BIRD registration, visit www.A4M.com or call 1.888.997.0112