Functional Diagnostic Medicine- The Next Paradigm Shift in Healthcare

Are You Going to Be Part of It?

By Ron Grisanti, D.C. and Dicken Weatherby, N.D.

Dear Friends,

As you know, healthcare is on the verge of a major paradigm shift!

The world is on the brink of witnessing an important revolution in the history of modern medicine!

You have a choice to either sit in the bleachers and watch the parade go by or participate in one of the biggest movements in the world of healthcare.

As you read this special report, you will soon discover that you have the opportunity to be part of a growing group of health providers who are on the cutting edge of the emergence of a significant change in the way health is managed.

Americans are Getting Sicker-What's the Problem?

Every year, the number of Americans who seek out alternative healthcare increases. The latest study on consumer health spending found that more than 37% of Americans use alternative medicine regularly (according to a 2006 survey conducted by Thomson Medstat, a business of The Thomson Corporation). People are spending billions of dollars on Chiropractic Physicians, Naturopathic Physicians, acupuncturists, and so on. Yet disease rates are increasing. Obesity is on the rise. Diabetes, auto-immune diseases, and cancer rates are soaring. The willingness of people to seek non-drug solutions is a step in the right direction, but the paradigm needs to shift before people will see a true improvement in their health.

Doctors must focus their attention on the right places. Here are a few of the areas that need to be addressed in every patient.

- 1. The role of what we call "The Toxic Load" in the development of chronic disease.
- 2. An understanding of Biochemical individuality.
- 3. The concept that medicine and health care must be <u>patient focused</u> and not disease focused

Principle #1 The Total Load

As a man drove through the mountains one day, he stopped now and then to load rocks into the trunk of his car.

With each new rock his car got slower and slower, and sagged lower and lower.

Stopping again to toss in yet another rock, all of a sudden--BAMMM!!!--his suspension gave way.

The gas tank slammed to the pavement, sparks flew, gasoline ignited.

By the time the authorities arrived on the scene nothing remained of the man's car but twisted metal and smoking ashes.

Rock (Stressors)

Your patients are like that man's car.

They go through life accumulating various kinds of "rocks" (stressors), knowingly or not, that place a growing burden on their body's ability to function normally.

These are "toxic" stressors. In other words, anything that taxes the normal functioning of your patients and push them away from optimal health can rightly be called a toxin.

Along the road through life the **total load of toxic stressors** can become too much.



Physical breakdown occurs.

A major health crisis sets in--cancer and other degenerative conditions like heart attack, stroke, diabetes, Alzheimer's, multiple sclerosis, chronic fatigue syndrome, arthritis, allergies, and many, many other such crises.

They are conditions in which the normal functionings of the body's various systems, working together to fight disease and produce health, have become compromised.

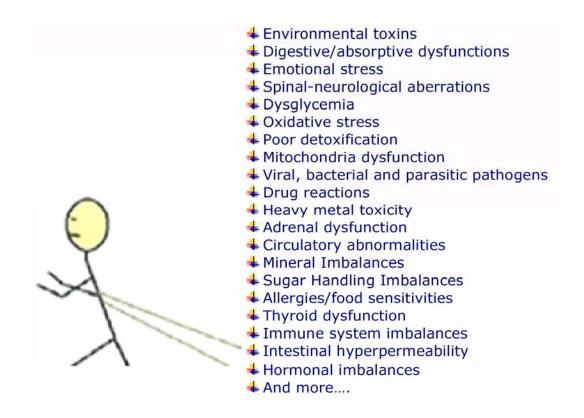
Too many "rocks" in the trunk.

Understand the **Total Load** and you will *crack the code* to solving many chronic diseases.

Total load is the term for the build up of things that are disagreeable to your patient. They can handle some of them, but as toxic stressors pile up, eventually their body can't keep pulling the load. It is hard to tell how much each factor is affecting them until they address it.

Let's assume each rock represents a *physiological*, *biochemical*, *metabolic*, *emotional and/or structural load* on the human body.

How many of your patients are loaded down with these?



Understand the **Total load** and you will be in the unique position to solve cases that have been considered unsolvable.

"It is only when the total body burden of mental and physical stressors has been sufficiently reduced," observes Sherry Rogers, M.D., "that the body is able to reverse damages from years of overload, and heal....the lower the total load, the higher your total health."

Let's illustrate this by looking at a sample case:

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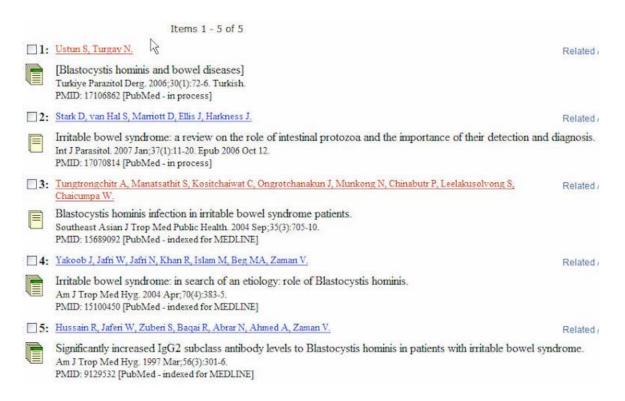
CASE #1- Irritable Bowel Syndrome

23 year old female presents with alternating constipation and diarrhea. She complains of frequent stomach aches and feels bloated after meals. She is diagnosed with Irritable Bowel Syndrome (IBS)

Disease Specific Approach		Patient Specific Approach
Traditional Western Medicine Approach	Alternative Medicine Approach	Functional Medicine Approach
Treat the symptoms by using drug therapy: • Zelnorm • Levsin Physician also recommended antidepressants to deal with the psychosomatic nature of IBS.	Treat the symptoms by using alternative medicine. It is very difficult to effectively treat IBS by just treating the symptoms. However, the alternative "treatment" of IBS would include the following: • Lactase • Caraway oil	Get to the underlying cause of why the patient has Irritable Bowel Syndrome by ruling out the following with functionally oriented diagnostic tools of assessment: 1. Hypochlorhydria (low acid output in the stomach)- IBS has been referred to as a condition of hypochlorhydria extending to the colonic mucosa. 2. Rule out the parasitic pathogen Blastocytis hominis, & Dientamoeba fragilis with a thorough Ova and parasite test. 3. Comprehensive Digestive Stool Analysis (CDSA) to assess enzymatic output, especially lactase, and to provide a thorough functional assessment of the whole GI system. 4. Complete blood chemistry and CBC analysis with thyroid panel. 5. Lysosome testing to differentiate IBS from inflammatory bowel diseases. 6. Intestinal hyperpermeability. 7. Gluten panel to rule out celiac disease Treatment is based on the functional diagnostic testing and is designed to treat the underlying cause and restore balance to the body.

Commentary:

The most widely used method for the treatment of IBS consists of the symptom suppression model via a prescriptive or natural agent. Consideration of a well documented GI pathogen and the appropriate intervention to eradicate this bug is an *intelligent approach* to cracking this IBS health challenge.



What People Really Want from Their Health Provider

Discerning health consumers are ready and HUNGRY for real answers to chronic disease such as fibromyalgia, heart disease, arthritis, auto-immune diseases, obesity, etc..

As we know, traditional medicine focuses on end-point treatments and rarely gives thought to the **underlying biochemical glitches** that may lead to the disease in the first place. This outdated model is what got most of us interested in alternative medicine—we sensed a better way was possible. The trouble is, most alternative doctors and training programs use the exact same model, only substituting natural substances and techniques for drugs and invasive procedures.

Everywhere you turn you read and view advertisements on this or that drug that provides **symptomatic relief** for XYZ disease.

Got acid reflux? Take Nexium

Got constipation? Take some natural herbal remedy

Got high blood pressure? Take a calcium channel blocker

Got anxiety? Take Valerian Root



This is the **epitome** of cookbook healthcare.

This Isn't Working

It doesn't matter if the treatment is a prescriptive drug or some natural supplement or herb, the focus is still on seeking **temporary symptomatic relief** and **NOT** *identifying the underlying cause of the illness*.

Most physicians, whether they are medical physicians, naturopathic physicians and yes, even progressive chiropractic physicians, spend the majority of their time diagnosing and treating the gross appearance of disease.

This is akin to continually putting out fires without looking for the arsonist who is setting the fires.

Hmmm...

Symptoms are Signals.

Just like the red warning light in your car that flashes when there is a problem with your engine, a physical symptom is a signal telling you that an underlying health problem needs to be corrected.

Treating a symptom without uncovering the real cause is like placing a piece of black tape over the blinking red warning light. The consequences of this action are obvious, an expensive engine overhaul.

Unfortunately, as we are finding out all too well in our patients, ignoring these chronic symptoms eventually leads to a serious illness.

THE ANSWER IS HERE

Through functional diagnostic medicine, physicians are able to help their patients restore normal body function, not only relieving symptoms but halting and reversing the progression towards life-threatening diseases such as arthritis, fibromyalgia, diabetes, auto-immune diseases, heart diseases, osteoporosis and many other chronic degenerative illnesses.

Unlike well meaning traditional and alternative physicians who tend to focus on what drug or herb to use to treat a symptom, doctors who practice functional diagnostic medicine give *serious thought* to identifying the physiological glitches that has led to the patient's failed health.

New Model in 21st Century Medicine

Functional medicine is the new health model of the 21st century.

Functional medicine has been defined as "the field of healthcare which employs assessment and early intervention into the improvement of physiological, cognitive/emotional, and physical functioning."

Forward thinking practitioners who embrace functional diagnostic medicine commonly **ask different questions** about how to better treat the chronically ill patient who otherwise slips through the cracks of conventional medical diagnosis and treatment.

Now is your chance to become a stan d-out doctor, one of the fe w who sees the **BIG PICTURE**. We have the opportunity for the first time in the history of modern me dicine to radically influence the playing field by spreading the word of functional diagnostic medicine around the world.

Principle #2 Biological Individuality

No two people are alike. Look around you and you will see a variety of sizes, shapes, personalities and levels of health. T hese represent the outward manifestations of internal chemical differences.

In other words, the physical, mental and emotional qualities expressed by people are a r eflection of t heir indivi dual body chemistries; and different body chemistries mean different treatment requirements to maintain metabolic and physiological balance. This in turn will enable indiv iduals to fully express their true health potential.

When it comes to the **one size fits all** recommen dation of medicine a nd nutrition, remember the ol d adage, what b enefits one person may be another's poison.

Understanding the concept of **biological individuality** gives you a unique way to look at healthcare.

The next time you read an article or hear a lecture promoting a particul ar food as a "health food," cer tain to work wonders for the health and well being of every man, woman and child, ignore it. Or, if a particular vitamin or mineral is being touted as good for this or that disease or condition, ignore it as well.

Any two people are likely to have a dram atically different reaction to a food, drug or to a nutrit ional supplement. The sad truth is, in both the lay and professional literature, biological individuality is rarely considered. All we are offered is vitamin B1 2 to cure this, the herb saw palmetto to cure that, and so on.

Functional Medicine testing verifies the concept of biological individuality. It sees that no two people, even if they present the same disease or condition, are alike.

As a Functional Me dicine practitioner the simple message to get through to your patients is that **different people have different causes for the same exact health condition**.

Since everyone is different, we need a comprehensive diagnostic analysis of evaluating each individual's physiological biochemical function.

Unlike traditional medical testing that evaluates "end-point" disease, the strength of functional medic ine tests lies in the fact that not only can it aid you in the detection of abe rrant physiological processes but is a powerful way to help you identify pre-clinical disease entities before the disease becomes symptomatic.

This makes Functional Diagnostic Medicine not only great for early detection but stand alone as "real" Preventive Medicine.

Functional Medicine testing is in a *league of its own* and as more peopl e around the world recognize the power of this new field of m edicine, the demand for doctors specializing in it will go up exponentially.

Let's illustrate this by looking at another sample case:

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CASE #2- Hypertension

55 year old female presents to clinic with high blood pressure. Her BP is 178/92 and has been elevated for over 3 months.

Disease Specific Approach		Patient Specific Approach
Traditional Western Medicine Approach	Alternative Medicine Approach	Functional Medicine Approach
Treat the symptoms by using drug therapy: • Diuretics-ACE inhibitors • Calcium-channel blockers • Beta blockers	Treat the symptoms by using alternative medicine. The following is a typical protocol for treating hypertension with alternative medicine: • EFAs: linoleic acid, fish oils, flax oil • Co Q 10 - 50 mgs BID or TID • Vitamin C - at least 2 grams a day • Magnesium - start at 400 mg QD • Potassium as diuretic 400-3000 mg QD, • Carnitine - 500 mg TID • Pantetheine - 900 mg QD • Taurine - 500 mg TID This style of treatment just substitutes natural medicine for drug therapy.	Get to the underlying cause of why the patient has hypertension by ruling out the following with functionally oriented diagnostic tools of assessment: 1. Renal insufficiency 2. Liver/Biliary Stasis 3. Heavy metal toxicity esp. cadmium 4. Adrenal dysfunction

Commentary:

The high blood pressure epidemic is treated via prescriptive and natural agents. The real proof of success is what would happen to our high blood pressure patient if she stopped taking the prescribed treatment. In all likelihood the blood pressure would skyrocket. What if the underlying cause was thoroughly assessed using signs and symptoms analysis, physical exam techniques, blood chemistry analysis, and other advanced diagnostic tools such as a urine heavy metal screening or a liver detoxification panel? You would quickly find out what was causing the problem! What if the hypertension was due to the existence of cadmium toxicity? And what would happen if the toxicity was eliminated via clinically proven detoxification methods? Not only would the blood pressure come down to normal but the patient would feel much better. We have now treated the *patient* and not her "disease" and we've brought her back onto the road to health and wellness. This is the beauty of functional medicine. *Pure genius!*

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13: Sirivarasai J, Kaojarem S, Wananukul W, Deechakwan W, Srisomeram P.

Non-occupational lead and cadmium exposure and blood pressure in Thai me

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14: Martynowicz H, Skoczynska A.

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The Fatal Flaw of Most Scientific Studies

The failure to recognize biol ogical individuality is the **fatal flaw** of most scientific studies referenced by traditional and even alternative medical journals. The statistically significan t group w hose condition bene fits from either a prescriptive or nat ural agent under study must have some quality which distinguishes it from the unresponsive group. This **unrecognized quality** is clearly revealed by Functional Medici ne testing to be a difference in **body chemistry and other physiological aberrations**.



The Frustrated Doctor

When clinicians employ empirical methods they are directed in their therapeutic efforts only by the subjective response of the patient.

When you employ Functional Medicine methods you are directed in your therapeutic efforts by objectively measured changes in your patient's body chemistry.

Traditional medicine and many well meaning alternative health practitioners essentially practice a **disease-specific approach** to patient care.

In other words, it is known that a specific disease or condition has a certain probability of responding to a particular therapy.

The therapy is implemen ted and the pa tient's subjective response is observed. This approach may be a success, or may prove to be in error, in which case a second clinical trial is prescribed, and so on.

Principle #3 Patient-Specific vs. Disease-Specific

The **disease-specific approach** is the road taken by virtually all traditional and alternative physicians and other healthcare specialists.

The goal apparently is to match each of the thousands of named disease s and conditions with some prescriptive, over-the-counter medication and/or some natural agent like a vitamin or herb.

There is a better approach – Functional Diagnostic Medicine.

Whatever value empiricism has in the pr actice of medicine, it is neither the simplest nor the most effective way to manage the multitudes of diseases afflicting people around the world. Fo r health professionals who are serious about helping patients get well, there is only one way that makes absolute sense and that is the **patient-specific approach**. This is what sets the Functional Diagnostic Medicine system apart from the standard approach to traditional diagnosis and treatment.

Functional Diagnostic Medici ne offers a viable alternative to disease-specific empiricism, namely, a patient-specific scientific analysis.

The patient-specific approach embodied within the field of functional medicine allows doctors and other health professionals to do what has yet to be achieved with the traditional diagnostic model and that is *genuine* science-based solutions for the chronically ill.



Functional Medici ne can be compared to hitting a *bull's-eye*.

Functional Medicine is a patient and *doctor's dream* to the mystery of solving some of the most challenging health conditions.

While most traditional and alternative health professionals claim to help with symptoms with vitamins, he rbs and prescriptive agents, practitioners of the

functional medicine model are working on a **unique and novel diagnosis platform**.

They understand that merely treating the o utward expression of disease does not cut it and pride themselves in **cracking the case** and getting to the **heart** of the health condition. T his is **true health care at its finest** and this is what Functional Medicine is all about!



If you enjoy throwing mud on a wall and seeing what sticks, then you may want to continue using the disease specific model.

However, on the other hand, if you desire to *step up and gain renown* as a medical detective, the **patient specific approach** is your calling.

The fascinating thing a bout Functional Medicine is that you find yourself treating two patients having identical symptoms with entirely different treatment programs.

For instance, two patients with apparently the same osteoarthritis might test out as having entirely diffe—rent phys iological, biochemic al and metabolic abnormalities predisposing them to ar thritis. Anyone who tries an "arthritis treatment" on these two patients would necessarily fail in at least one of the cases. The reason for failure obviously—is that no consideration is given to what might be the causative factors.

Functional Medicine has proved that discovering the underlying physiological, biochemical and metabolic glitches unique to the **patient** is one way to restore a nd maintain health, regard less of what symptoms the patie of presents.

Let's illustrate this by looking at one last sample case:

CASE #3- Enlarged Prostate

67 year old male is diagnosed on digital rectal exam to have an enlarged prostate. He presented to clinic complaining of hesitancy of urination, post-voiding dribbling, and a sensation of incomplete emptying.

Disease Specific Approach		Patient Specific Approach
Traditional Western Medicine Approach	Alternative Medicine Approach	Functional Medicine Approach
Treat the symptoms by using drug therapy: Proscar Hytrin Flomax	Treat the symptoms by using alternative medicine. The following is a typical protocol for treating BPH with alternative medicine: • Zn up to 150-200 mg/day x 2 months then 50-10 mg/day • Pumpkin seeds • Herbal treatment with Saw palmetto, nettles and pygeum africanum • Lycopene • L-Alanine This style of treatment just substitutes natural medicine for drug therapy.	Get to the underlying cause of why the patient has an enlarged prostate by ruling out the following with functionally oriented diagnostic tools of assessment: 1. Screening blood tests to evaluate the kidneys, the liver, blood lipids, and electrolytes using normal and functional reference ranges 2. Mineral deficiencies, especially zinc 3. Comprehensive evaluation of Estrogen, Progesterone and Testosterone levels. 4. Evaluate for prostate cancer risk with advanced cancer markers Treatment is based on the functional diagnostic testing and is designed to treat the underlying cause and restore balance to the body.

Commentary:

The common approach to the treatment of BPH consists of the ill-fated symptom suppression model via a prescriptive or natural agent. Consideration of the

physiological aberration of hormones, the presence of mineral deficiencies and the possibility of prostate cancer and the appropriate intervention to correct these aberrations is a *smart approach* to solving the BPH riddle.

Food for Thought

Estradiol increases a genetic product (Bcl-2) that leads to cell proliferation and delay in apoptosis, both of which increase cancer risk. Progesterone suppresses Bcl-2 action and increases another genetic control product (p53) that slows cell proliferation and restores proper apoptosis, both of which decrease cancer risk. Testosterone (but not the DHT) stops cancer cell growth.

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8: Bartsch G, Rittmaster RS, Klocker H.

Dihydrotestosterone and the concept of 5alpha-reductase inhibition in human benign prostatic hyperplasia. Eur Urol. 2000 Apr;37(4):367-80. Review. PMID: 10765065 [PubMed - indexed for MEDLINE]

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PMID: 10765065 [PubMed - indexed for MEDLINE]



Are You a Scientist or a Gambler?



The gambler is hoping the odds are in his favor. Maybe they will and maybe they won't. The health professional who follows the disease specific approach to patient management is in a similar boat. The treatment may work or it may be an utter failure. There is a degree of gambling involved and a high degree of uncertainty on the outcome of the recommended treatment. Yes, there is a chance of success but there is also a chance of failure.

The scientist carefully evaluates the data and formulates a clinical decision on what path to take to achieve a successful outcome.



There is not a dis ease in this world that you cannot help w ith Functional Medicine. In other words, while F unctional Medicine may not b e the sol e answer to a patient's problem, every si ngle sick patient that walks through your door has physiological, biochemi cal and metabolic abnormalities that are weakening them and predisposing them to disease. By correcting these glitches via Functional Medicine you will be getting directly to a major cause of their disease, and in doi ng so, im prove not just their complaint but all other areas of health.

If, however, you take the traditional disease specific approach of giving a patient some popular remedy or drug of the month for whatever ails him, you are going to at best give him a temporary symptomatic boost, while actually exacerbating his body chemistry imbalances over time. In the long

run, the patient is almost always wo specific approach to his symptoms.

With F unctional Medicine you will neve r again feel the need to take an empirical shot in the dark. You will have objective tests to guide your therapeutic therapy.

Comprehensive and Objective Testing

If a patient-specific, scientific analysis is our goal, how do we a chieve it? Clearly, prescription of a patient- specific t herapeutic regimen must be dependent upon a comprehensive evaluation of that patient. Furthermore, the patient evaluation must be achieved via objective testing procedures.

The field of Functi onal Diag nostic Medicine offers an analytical system by which to achieve a comprehensive patien t evaluation. That system is based upon objective clinical data. The data is derived from a number of different criteria:

- 1. Tests of vital signs and neuro-endocrine reflexes.
- 2. Comprehensive unique patient questioning
- 3. First line physical diagnostic testing
- 4. Urine and saliva chemistries.
- 5. Evaluation of clinical and sub-clinical blood tests
- 6. Stool Tests
- 7. Evaluation of emotional and environmental issues
- 8. Careful evaluation of the hormonal system
- 9. Measurement of the patient's toxic load

After years of clinical testing, patter ns of aberrant test results have been identified allowing the practitioner the unique opportunity to zero in on the underlying physiological, biochemical and metabolic abnormalities associated with a multitude of disease entities.

These fundamental patterns of aberrant te st results play a role i n virtually every sta te of health or disease. Thus the bi rth of functional diagnostic

medicine and the emergence of a syst em of diagnosis that is turning healthcare on its head.

This New Medicine model (aka: Functional Diagnostic Medicine) is here and building momentum around the globe.

Thousands of doctors and other health professionals are embracing this wonderful method of healthcare and witnessing results never before achieved in the history of their practices.

As we conclude this very important report, we must ask you:

- Do you want to achieve <u>extraordinary</u> clinical results?
- ♣ Do you want to be recognized in your community as a <u>brilliant doctor</u> with many of the answers?
- ♣ Do you want patients traveling from afar passing by hundreds of doctors just to seek you out for <u>your exceptional knowledge</u>?
- ♣ Do you want your professional colleagues knocking at your door asking for help with their most challenging cases?

If you answered "yes" to the above, then we encourage you to join this growing list of brilliant health professionals and discover the exciting field of functional diagnostic medicine.

In the days and weeks to come we will be sharing with you a series of Functional Diagnostic Medicine Case Studies called "Clinical Rounds". These will show you exactly how to approach your cases from this new perspective. Be on the look out for your subscription arriving in your e-mail inbox.

If you have not yet signed up for "Clinical Rounds" please do so by visiting the link below:

http://www.Clinical-Rounds.com

Sincerely,

Ron and Dicken