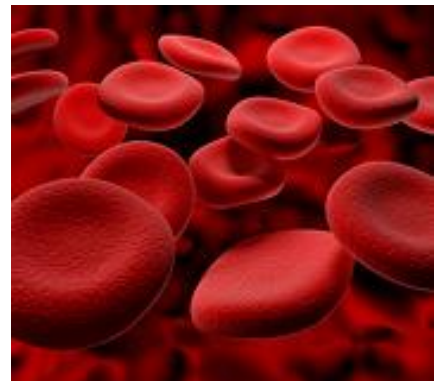




Do you want to lose weight, feel healthier, look younger,
and get more out of life - naturally?



No magic
bullet



No one size
fits all



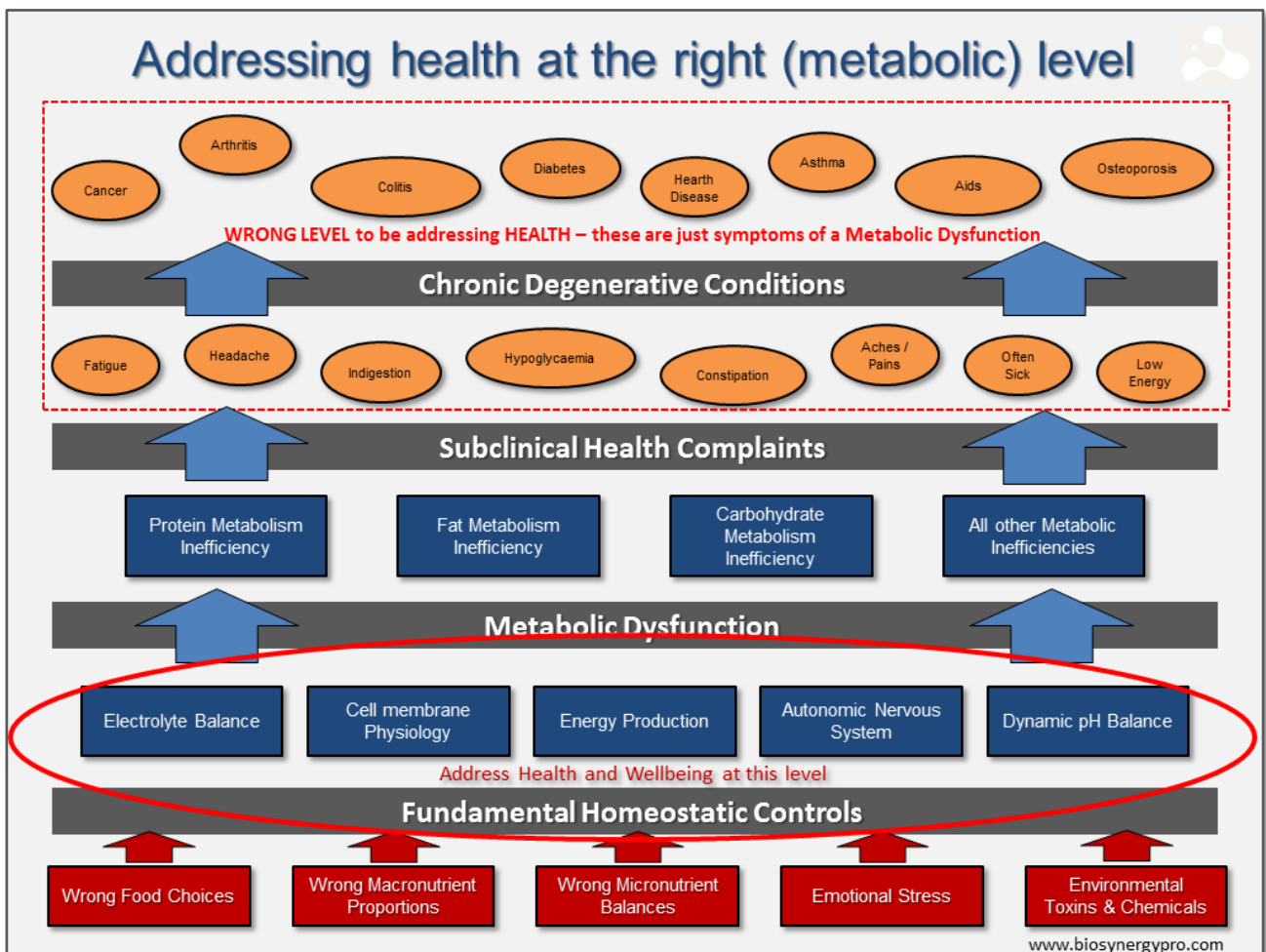
Real science
Real results



Unleash your Health Potential!

*Essential body chemistry and metabolic balancing for optimal
health and wellbeing*

Synthesizing the primary contributions of the greatest minds in health science of the past century, join Live Cell Microscopist, Health Coach and Holistic Health Educator Mark Hathaway for a fascinating and unforgettable journey of self-discovery & health education that just may change your life forever!



Do you want to lose weight, feel healthier, look younger and get more out of life?

Unleash your health potential

Do you have a specific illness or disease you're dealing with now? Do you ever think that you don't feel like you used to feel? Are you fatigued, or hyperactive, overweight, underweight or have aches or pains? Are you an athlete or sports person looking to 'get the edge' and tweak your system in order to maximise performance in all areas of your physiology? If you answered YES to any of the above, I would like to introduce you to a very unique, innovative and powerful objective based method of rebalancing, healing and optimising your physical and mental health.

Have you

- Read books on diet, nutrition and nutritional supplements?
- Been amazed at how many books have been written on the subject?
- Ever wondered how there can be so much contradictory and conflicting information?

Have you ever wondered..

- Why is degenerative disease skyrocketing?
- Why are younger and younger people falling prey to diseases of the aged?
- Why are cancer, heart disease and diabetes increasing each year?

The million dollar question

- How can someone eat the best organic foods, take the finest nutritional supplements that money can buy, get



plenty of rest, exercise regularly..... and **Still Not Feel Well ?**

- If nutrition is so important, why doesn't it work for so many people?

Answer...

We are all biologically unique - and it is the understanding of this uniqueness that is the secret to optimal physical and mental health!!

“The doctor of the future will give no drugs, but will interest patients in the care of the human frame, in diet, and in the cause and prevention of disease.” -- Thomas Edison --

Nutrition and supplementation specific to YOUR biological individuality

Precision nutrition

What makes nutrition & supplementation complicated is BIOLOGICAL INDIVIDUALITY. This means simply that no two people are biologically identical - therefore, no two people need exactly the same diet and nutritional supplements to build, maintain and optimise good health. You and your neighbour are likely to be entirely different individuals biologically. Food that is nutritious for you may be unsuited to his individual type of body chemistry. A vitamin supplement that gives a big boost to his energy level may leave you feeling tired and weak.

Most people either give up in frustration or suffer through a lifelong series of trial and error guessing in an attempt to find what works for them. Compile that with the fact that our "natural" environment isn't very natural anymore - full of all sorts of pollutants, chemicals, toxins and mineral depleted, genetically modified food and it's no wonder why staying healthy is such a difficult challenge!!

So.... the simple truth: There is no one ideal diet for everyone; there is no vitamin or mineral supplement that will improve or

optimise everyone's health. The question of specifically what diet and supplements are best for you can be accurately answered only in one way - with a comprehensive, scientific, Metabolic & Body Chemistry profiling and rebalancing program. I have developed such a program.

In order to determine the ideal diet and supplement protocol to fit perfectly with YOUR body (and to bring your metabolic control mechanisms back into balance), my program involves a comprehensive physiological & body ecology assessment which involves assessing two very powerful perspectives of health:

- **The visual perspective (live & dry blood analysis)**

Observing a qualitative reflection of health as expressed in your blood.

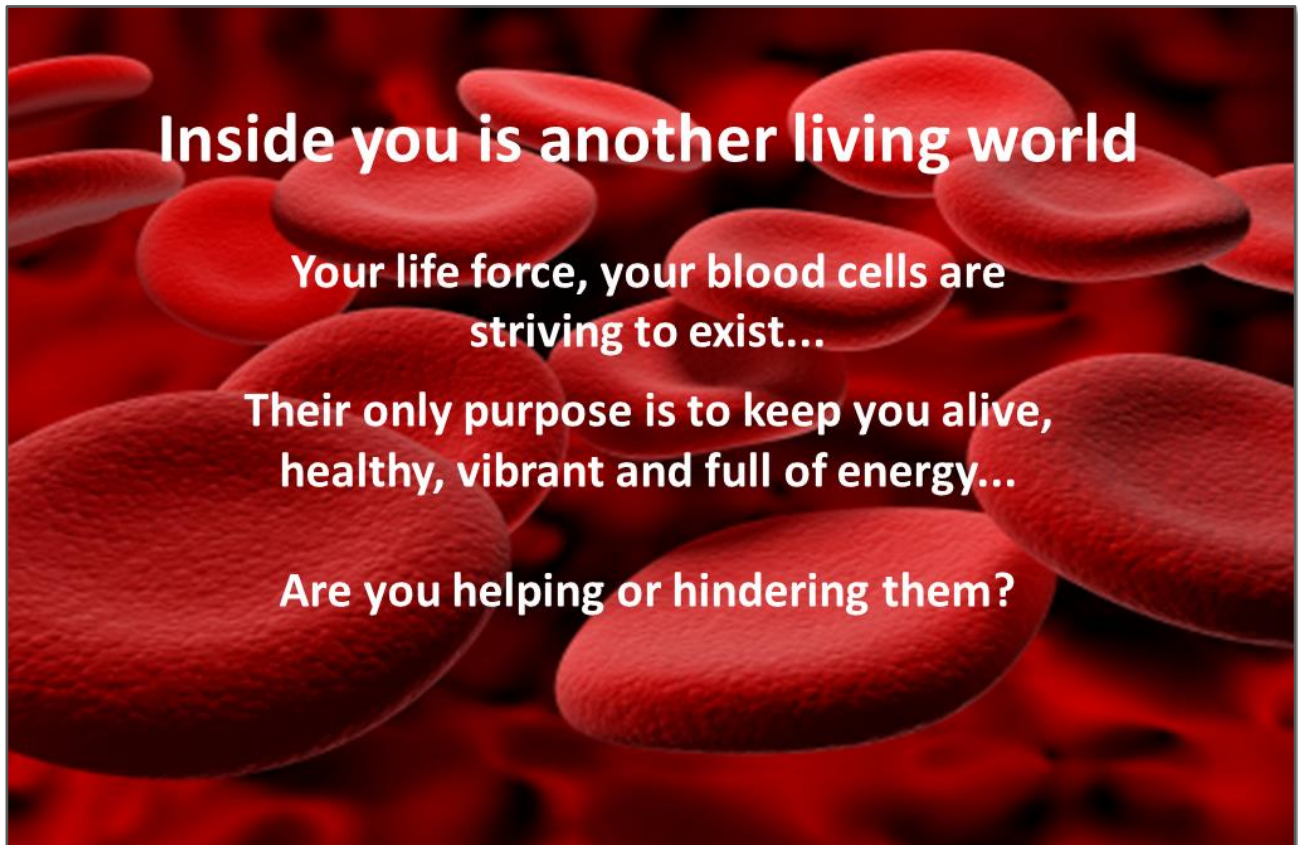
- **The quantitative perspective (metabolic analysis)**

Assessing the mechanical and electrical measures of health.

*Edgar Cayce, the seer of Virginia Beach, predicted in the 1930's that in the future, a person's state of health would be determined by the evaluation of one drop of blood. **This time has arrived!***

The visual perspective (live & dry blood analysis)

Observing a qualitative reflection of health as expressed in your blood *(using a high powered dark-field biological video microscope)*



It is absolutely fascinating to watch the play of life at the cellular level - something that never fails to amaze my clients!

Using one of the most powerful forms of health education available - a high powered biological video microscope, live cell microscopist & holistic health educator Mark Hathaway will take you on a fascinating and unforgettable 'live' journey into the microscopic world of your internal terrain (body ecology).

The purpose of looking at blood under the microscope is to determine the state of the terrain – whether it is in a state of balance or imbalance. This knowledge is of utmost

importance because changes in the blood precede any physical manifestation. When the blood and terrain become compromised, disease is soon to follow, and by correcting the imbalance in the terrain we are able to re-establish a state of balance and health.

While conventional medicine is concerned with eradicating disease by killing bacteria, cancer cells or by replacing hormones and suppressing symptoms, I am more concerned with the state of the terrain, because disease will only be able to thrive in a suitable soil. Just like plants that have been grown in poor soil and are subsequently weaker and more

prone to disease, so are the cells in the body affected by the terrain.

The visual impact this experience has on my clients is incredibly powerful and ensures that they stay motivated and committed to making positive, health-promoting changes in their lifestyles. You will be amazed at the degree of detailed information that can be obtained from a tiny sample of blood.

Who wouldn't want to know this invaluable information?



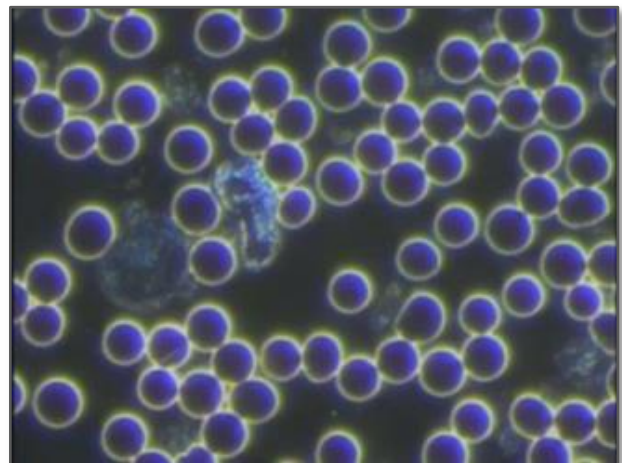
The analysis of both live and dry blood specimens provides us with valuable insight into the body's internal terrain, which constitutes the blood, lymphatic fluid, cerebrospinal fluid and the interstitial fluid that surrounds every single cell in the body. Just like a fish swimming in unhealthy water will become unhealthy, so the cells in the body are poisoned by the toxins and acids in the fluid in which they are bathed.

Some of the things I can see in the blood...

- The level of activity of the immune system
- The condition of the red blood cells
- Liver, kidney, pancreas, heart, lung, prostate, ovary, breast and other organ stress

- Detection of the presence of parasites, yeast, fungus, mould, and the degree of pleomorphic activity
- Observation of features associated with blood sugar imbalance
- Observation of features associated with malabsorption of fats
- Observation of features associated with protein malabsorption
- Observation of features associated with nutrient malabsorption and vitamin deficiency
- Observation of crystalline forms such as protoplasts, fibrous thallus, uric acid, cholesterol, and mycotoxins
- Observation of features associated with gastro-intestinal tract dysfunction
- Observation of features associated with degenerative conditions

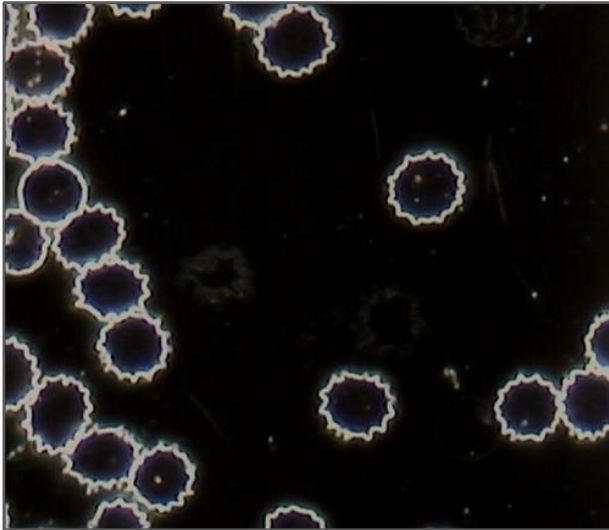
Some examples...



Good, healthy red blood cells and clean environment (live blood)

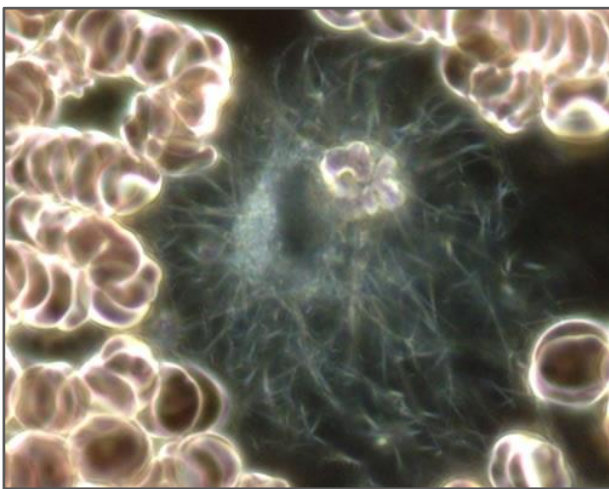
The Red Blood Cells (Erythrocytes) are uniform in size and shape and appear as round circles. The center of each cell is nice and dark with no light coming through. The cells reside freely in their own space, not overlapping or sticking together, but gently bouncing off each other (good zeta potential).

Did you know? Low blood pressure can be just as big a problem as high blood pressure. Proper blood pressure is needed to deliver oxygen and nutrients around the body. Having low blood pressure is like driving around on flat tyres!



Red blood cells with corrugated membrane (live blood)

CAUSE: Low EFA's (good fats) in diet, poor digestion too many "bad fats". Free Radical stress from: diet too low in antioxidants, food additives, sodas, nitrates, fried foods, environmental toxins, food toxins, air fresheners, cleaning products, cigarettes, pesticides, chemicals, metals, street or prescription drugs. SYMPTOMS: Poor circulation, low energy, premature or accelerated ageing.

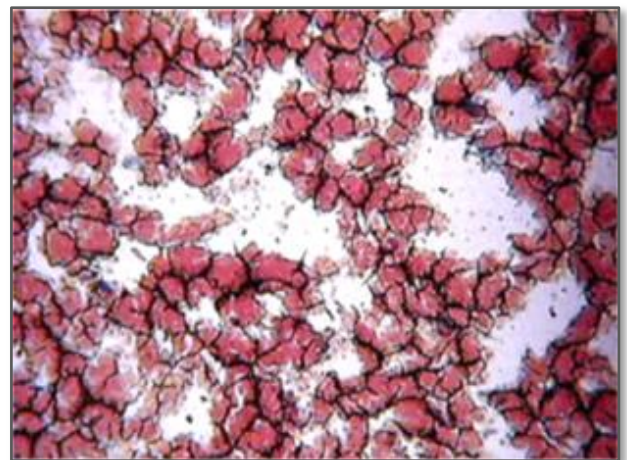


Fibrin Spicules "Dandelion puffs" (live blood)

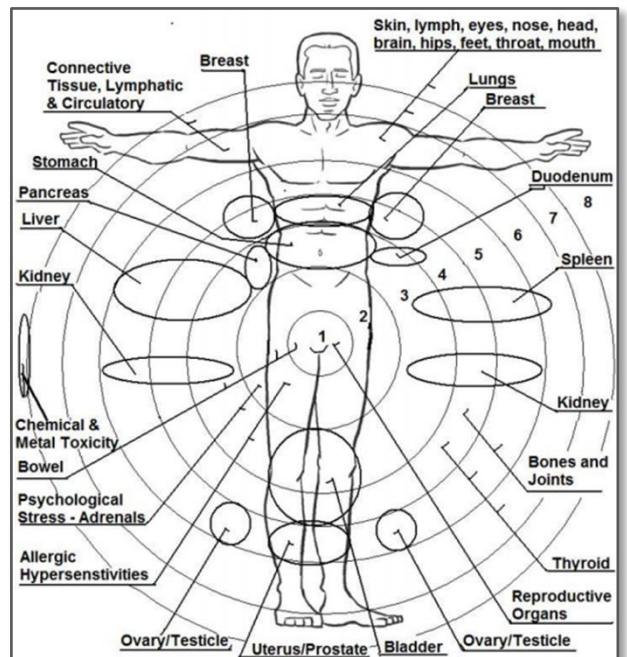
These are altered, unusable polymerized proteins in the blood. They signify liver stress.



I'm healthy and energetic! I love my bod and my body loves me (dry blood)



I'm extremely unhealthy, have high levels of oxidative (free radical) damage and have cancer (dry blood)



Some of the areas of the body I can read from just one drop of dry blood

The quantitative perspective (metabolic analysis)

Assessing the mechanical and electrical measures of health



Metabolic Analysis is an innovative health technology that measures 10 key indicators of your personal metabolism. Your metabolic indicators identify what is right for you, not simply what is right for everyone else. These indicators provide the keys to understanding your metabolism – how to speed it up, when to slow it down and how your body produces energy, how it heals, recovers and rebuilds itself.

Essentially our metabolic control mechanisms.....

- control your energy production;
- control the function of your heart and circulation;
- control the function of your brain and nervous system;
- determine your efficiency of digestion and assimilation of nutrients;
- control the chemical balance in your blood and in your cells;
- help regulate your hormone balance;
- help you efficiently eliminate the toxic waste products of metabolism and;

- minimise the degenerative changes associated with the aging process.

In other words, these fundamental metabolic control mechanisms are the engines that drive your body and mind. When these engines are working efficiently, you move through life with strength and vitality. When one or more of these control systems loses efficiency your body and mind simply cannot perform at their best. When the metabolic imbalance is severe enough or exists for a prolonged time, pathological changes occur and you suffer the symptoms of disease.

The goal of Metabolic Analysis

The goal of Metabolic Analysis is to restore balance to your Metabolic Control Mechanisms, thus increasing your adaptive capacity. Increasing your over-all adaptive capacity is the only way to assure that you are living to your maximum potential. The result will be:

- Better resistance to disease
- Renewed strength, such that functional and pathological symptoms can be overcome faster
- More complete tissue repair and regeneration
- More effective handling of stress a high level of vitality
- A slowing of the aging process

Did you know? Low blood pressure can be just as big a problem as high blood pressure. Proper blood pressure is needed to deliver oxygen and nutrients around the body. Having low blood pressure is like driving around on flat tyres!

And what specific problems does metabolic balancing address?

Each of the Metabolic Imbalances found in you disables your ability to perform the following essential functions:

- maintain glycaemic control
- maintain normal oxidative metabolism
- maintain ideal pH
- maintain ideal concentrations of electrolytes and biologically active water

How important are these four essential functions? They are the whole story. If you are talking about health vs. disease – they are the difference between living stronger longer and being sicker-quicker.

You are probably interested in a little more information on what these four essential functions mean to your health:

Maintain glycaemic control

Glycaemic control is all about your ability to maintain normal blood sugar levels and normal brain sugar levels. All of your 5 key metabolic control mechanisms are involved in glycaemic control.

When you lose glycaemic control you suffer to some extent from either hypoglycaemia or diabetes. These two conditions have a major impact on how you feel and how you look. But more than that, poor glycaemic control is tied in with a breakdown in many body systems. For example, it is estimated that 75% of all

cardiovascular disease is directly associated with poor glycaemic control.

Now look at that fact in the light of what you have just learned about Metabolic Analysis. Does it make sense for people with cardiovascular disease to take remedies or drugs for the heart and blood pressure without making any attempt to restore glycaemic control - when loss of glycaemic control was the cause of the cardiovascular disease?

Chronic fatigue is almost invariably associated with poor glycaemic control. Does it make sense to take stimulants to give the illusion of increased energy when the lack of energy is due to poor glycaemic control? The only real cure for the low energy is to restore normal blood and brain sugar levels - and the only way to do that is by restoring balance to the five metabolic control mechanisms.

Maintain normal oxidative metabolism

Every cell in your body produces its energy with oxygen. In the state of health, sufficient oxidative energy production occurs in each cell to perform its essential functions, while at the same time excessive free radical oxidation is minimised. Your goal, of course, is for each cell in your body to produce enough oxidative energy to keep all your cells humming happily and healthfully while avoiding the accelerated tissue destruction and aging processes that occur when oxidation gets out of control. In other words, you want to be eating just the foods that your body oxidises most efficiently, while avoiding the foods that will oxidise out of control. You also want just the vitamins, minerals, trace minerals and amino acids that will act as oxidants to keep your body highly charged with energy, while at the same time

taking just the right types and quantities of antioxidants to protect you from free radical damage. What is this ideal balance between oxidants and antioxidants? It is different for every individual.

Maintain ideal pH

There is a very narrow range of pH which is ideal for your blood; an ideal pH range which is ideal for the tissue fluids; and an ideal pH within your cells. There is probably no pathology that is not associated with abnormal pH changes in either the blood, the tissues, or the cells. You may be too alkaline or too acid in any one of these three important fluid compartments in your body. Furthermore, you can be too alkaline in one area while at the same time being too acid in another. Metabolic Analysis is the only means to determine where you may have abnormal pH, why that pH is abnormal, and what exactly you must do in the way of diet and supplementation to correct the abnormal pHs.

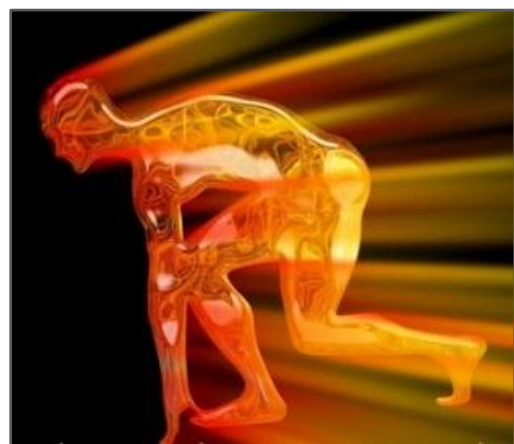
Maintain ideal concentrations of electrolytes and biologically active water

Not only must the blood, the tissues, and the cells all maintain normal pH - each of these compartments must also maintain ideal concentrations of electrolytes and water. Each of the five metabolic control mechanisms influences electrolyte and water movements within and between these three body fluid compartments. Correcting your metabolic imbalances will move the electrolytes and bio-active water to exactly where they are deficient. This will facilitate the movement of nutrients and waste products into and out of all the cells of your body. It will improve the

strength and efficiency of your heart and blood vessels and normalise either high or low blood pressure. It will also strengthen the hormone systems that are associated with control of electrolyte and water levels.

What you are learning is that if you can maintain glycaemic control, normal oxidation, normal pH and normal flow and concentration of electrolytes and water, then you will be in a state of health. Your adaptive capacity and vitality will be at a level approaching your innate potential. Metabolic Analysis can show you the way. Once you have been so empowered you will have done everything for your health that you can do nutritionally. Once you are so empowered, you will likely scoff at the idea of taking remedies for this and that condition - as so many people do in a disease-specific desperate attempt to control symptoms without any regard to the cause of those symptoms.

With Metabolic Analysis you will never need to resort to trial and error to determine which foods or which nutrients might be best for you. It is all shown very clearly by an analysis of your tests. And trial and error is what everyone else is stuck with who does not have the benefit of Metabolic Analysis. For all those who take an unscientific trial and error approach to nutrition, error is what they get almost all of the time.



Metabolic Analysis tests for...

Digestion

How your body extracts the nutrients and energy it needs out of the food you put in. We are not what we eat, we are what we assimilate!

Hydration and Electrolytes

Are you getting the right balance of electrolytes and quality fluids vital for sustained energy production? Is the power switch turned on in the first place?

Anabolic or Catabolic (cell membrane permeability)

How effectively is your body shifting between energy output and repair, recovery and building healthy new cells?

Carbohydrate and Fat Metabolism

What is your body's preferred fuel source, Carbohydrates or fats? This is vital for energy production, weight loss and achieving your health goals.

Free Radicals and Antioxidants

The balance between oxidative energy production and antioxidant induced cellular repair.

Protein Metabolism

How is your body making use of your protein intake?

Autonomic Nervous System

Is your nervous system coping with your daily demands? Are you sympathetic dominant or are you parasympathetic dominant – understanding the difference and keeping them balanced is one of the key foundational principles for optimal health & wellbeing.

Acid or Alkaline

The Acid/Alkaline balance and its relationship with energy production and health.

Vitamin C Levels

Vital for healthy tissue – vitamin C is the “glue” which holds us together.

Your Physiology

A series of practical readings which determine how your body is adapting to your individual metabolic chemistry. This is where we make your goals real for you.

“We are all metabolically unique and it is the understanding of this uniqueness that is the secret to optimal health”



Outline of Metabolic Control Mechanisms and their imbalances

Electrolyte balance (electrolyte excess/deficiency)

Electrolyte Balance comes in at the top of the hierarchy of all the points of stasis that we are looking to bring into balance. Certain issues with digestion may take priority from a point of view of processes that need to be corrected before anything else can get better, but as far as those ideal ranges of things to watch, our electrolyte balance is the most critical. Why is it so important? Well, if our electrolyte balance falls too far out of range, either towards electrolyte excess or electrolyte deficiency, then the delicate electromagnetic suspension that holds our blood cells apart (a state of dispersion, or colloidal suspension maintained by an electromagnetic force known as Zeta Potential) could fail and our blood could clot together, resulting in widespread clotting of the blood known as disseminated intravascular coagulation. This is pretty much what happens in nearly 30% of deaths in Australia. Every 12 minutes an Australian dies of cardiovascular disease - the end stage being congestive heart failure. What often fails to be mentioned is that in the mass majority of cases, it's not a problem with the heart itself so much as the state of the blood that it has to pump.

Revolutionary insight into the national epidemic that is cardiovascular disease has been made by an osteopathic physician, Dr. T.C. McDaniels. He was the first, or one of the first, to note that blood is a "colloidal suspension maintained by zeta potential".

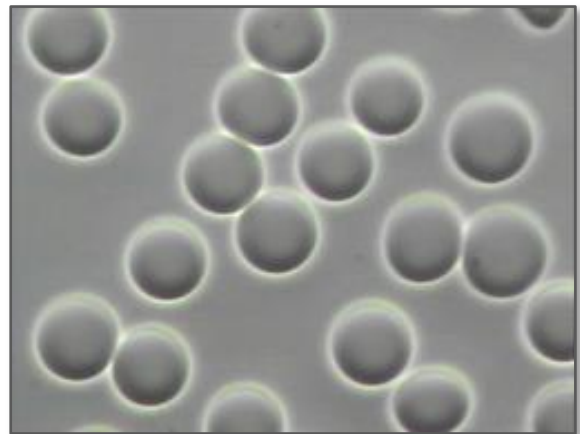
What exactly that means is that our blood cells maintain proper spacing and circulation so long as there is sufficient anionic energy to keep the cells dispersed. If we eat and drink in such a way as to support healthy electrolyte balance, then our blood will have the ionic energy to maintain healthy circulation.

Definition of terms

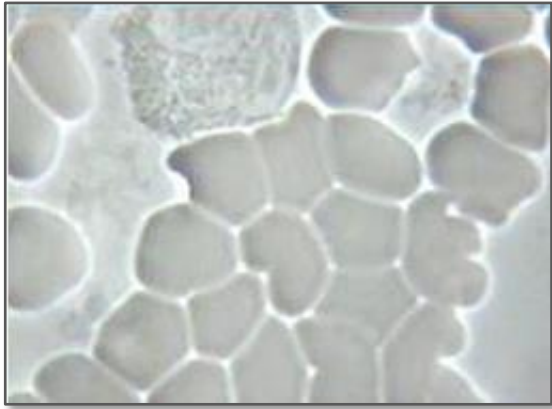
Zeta Potential- Zeta potential indicates the degree of repulsion between adjacent, similarly charged particles in a dispersion.

Anionic (-) negative charged. Anionic substances in the blood repel each other and keep the blood dispersed.

Cationic (+) positive charged. Cationic substances in the blood causes the blood to aggregate or clump together.



Red blood cells showing good zeta potential



Red blood cells demonstrating low zeta potential

Either too many or too few electrolytes, or electrolytes with the wrong electromagnetic charges, can result in a collapse of the colloidal suspension with severe disease consequences.

If you or someone you care about has a history or risk of heart failure, heart disease, cardiovascular disease or kidney disease, I highly recommend you take an active role in preventative health care by monitoring your electrolyte balance and reading the work of Dr. T.C. McDaniel, whose insights have contributed greatly to the information presented here.

Electrolyte excess imbalance

The electrolyte state is defined by blood pressure. (Though other portions of the test determine the electrolyte state as well, like conductivity/MS measurements for urine and saliva). When blood pressure is high, it's an indication of high amounts of minerals in the system. (Sugars and proteins are also in the mix.) High blood pressure is usually caused by high electrolytes (mineral/ salts), sugars, or protein or any combination of those three.

Basically, high blood pressure can be an expression of insufficient, or lousy kidney function, meaning that when excessive electrolytes become concentrated in the body

fluids, it's usually a result of a lack of hydration (not drinking enough pure water), or impaired excretion of mineral salts. High blood pressure can also result from a constricted vascular system.

Most commonly, drinking more pure water is a priority for someone with high blood pressure, but if a catabolic imbalance also showed up on your test, you may need to work to improve that imbalance as well so the body will send more water through the kidneys.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but people with this imbalance will typically experience one or more of the following issues at some point:

- High blood pressure
- Hardening of the arteries
- Heart attack
- Stroke
- Poor circulation
- Inability to properly transport oxygen, nutrients, waste products, antibodies and more, throughout your system.

Electrolyte deficiency imbalance

This means you appear to have a deficiency of certain mineral salts in your body fluids. Your low level of electrolytes may be due to either an inadequate intake of needed minerals, an inability to properly digest your food and assimilate the minerals found in your food, or some individuals may have a hormonal issue in which they don't make enough anti-diuretic hormone from the post-pituitary gland and they will pee out most of their salts. In any

case, you may be losing minerals faster than you are taking them in.

The minerals, or salts, in the system represent the conductivity, or ability for electricity to flow through the system. When the mineral content is low, there's no spark and energy can be low. Without this energy, the brain can't function at it's full potential due to the lack of minerals required for signals to travel through.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but people with this imbalance will typically experience one or more of the following issues at some point:

- chronic fatigue
- low blood pressure
- menstrual cramps
- poor circulation
- decreased libido
- depression or anxiety
- vertigo or dizziness when standing
- cravings
- insomnia

Cell membrane physiology (anabolic / catabolic)

This point of balance in the body is second only to the Electrolyte Balance. You may wonder why I've ranked this balance above the others. As in each ranking in the hierarchy of points of stasis, the higher ranking points of stasis hold greater sway and are more influential factors impacting the lower ranking points of stasis. For example, if someone is in either an anabolic or catabolic imbalance, cell walls are less able to properly regulate the flow of acid and alkaline elements throughout the body.

Summary of the anabolic / catabolic distinction

Our bodies are designed to swing from a more catabolic state in the morning to a more anabolic state in the evening. During the catabolic state, cell walls are more permeable, allowing more energy exchange to happen and produce more metabolic waste in the process.

Think of the catabolic state as one where an individual is burning the candle at both ends. As the day progresses into evening & night, our bodies ideally shift to a more anabolic state, where cell membranes become less permeable, in a sense, closing down shop for the evening to restock, regenerate internal supplies, rest, repair and grow.

Think of the anabolic state as one where a person isn't burning the candle at either end - they're resting or even sleeping. That's a natural ebb and flow that we should all go through each day. It helps us be energetic when it's time for action and lets us rest up at night to prepare for the following day's activity.

A brilliant physician named Emmanuel Revici, M.D., discovered that most seriously ill individuals were stuck in either catabolic or anabolic states. I just talked about the advantages of being in each state, but you may already be able to guess some of the problems with being stuck in either one state or the other. If we were stuck in the catabolic state, burning the candle at both ends, we may soon find ourselves exhausted. Energy stores would run thin and we'd be generating excessive metabolic waste. Further, being stuck in this state makes cells less stable, age/die faster, and makes the body more prone to bacterial, yeast and fungal infection.

We generate more oxidative stress and tend to be less able to sleep well or ever feel really rested and energetic. On the flip side, someone stuck in an anabolic state, not burning the candle at either end, has a really hard time tapping into the potential energy present in the body. The anabolic cells are also more closed off to oxygen and, as such, produce energy through what's called anaerobic fermentation. This produces an intracellular (inside the cell) environment that is more hospitable to viral infection. Not cool! The cells also tend to last longer than they should and run into more problems with DNA replication, making the anabolic individual prone to certain types of tumour growth. Also way not cool! There are other issues that each state has with it and things we can do to restore balance in each scenario.

What determines if cell membranes are built right and healthfully swing from the catabolic state in the a.m. to the anabolic state in the p.m. and back again the next day? There are many factors including vitamin, mineral and amino acid balances that impact this swing, but one of the most important factors is a balance of the types of fats that make up the cell membrane.

Our cells are bi-lipid membranes ("bi" means two) - these two types of fats that make up our cell membranes are fatty acids and sterols (sterols as in cholesterol). If a cell's membrane has an imbalance of too many fatty acids and not enough sterols, as is often the case for someone who, due to pop culture, has avoided saturated fats for a long time, then the cell wall will be too permeable and the person will likely fall into a catabolic imbalance. On the other end of the spectrum, if someone has too many sterols making up their cell membranes (as might be the case in someone with elevated cholesterol levels)

then the cells will not be permeable enough and the person will likely be in an anabolic imbalance. Specific recommendations and further elaborations of each state follow, but first, a little bit about the genius whose insights most heavily inform the content of this information...

What can you say about a man that continued to go into the office after his 100th birthday. Crazy? Or maybe it is dedication beyond the call to duty. This was Emanuel Revici, MD. A physician whose genius and dedication to research rocketed past his peers. In fact he was so far past his peers that the State of New York saw fit to take away his medical license when he was in his 90's for doing things they did not agree with. (He eventually got his license back.)



Emanuel Revici

With brilliant research in lipid/sterol mechanics and cancer, one culmination of Revici's work was his textbook titled "Research in Physiopathology as Basis of Guided Chemotherapy, With Special Application to Cancer". It should be required reading for every medical and oncology student though it is basically an unknown work in those circles (Probably due to the extreme academic, political and corporate influence in this area).

What Revici did was nail the benchmarks for easily determining the anabolic/anaerobic or

catabolic/dysaerobic condition of the body which is the ultimate reflection of the diphasic nature of human life.

The elements largely responsible for the diphasic swing of anabolic and catabolic states is the lipid / sterol cellular balance. This directly relates to cell membrane permeability issues. If one were to be pushed into either extreme (typical of someone that is not well), cells would either be locked up and fail to communicate (that's one way of saying it), or would be so wishy washy they could easily give way to a loose structure and wreak havoc on the other extreme. These states are reflective in the numbers provided through urinary pH and surface tension results, and steadfastly correlated to suggested protocols gleaned through years of painstaking research by Dr. Revici. The clinical power this holds for practitioners willing to learn these concepts cannot be understated.

Catabolic Imbalance

This is a cellular permeability imbalance. During the day, our cell walls are intended to open up (much like a flower) so nutrients can get in and out more easily. At night, our cell walls are intended to become more closed (again like a flower) so nutrients cannot get in and out as easily. This "more open" state is called a catabolic state. Though it is very appropriate for the cells to be in a catabolic state during the day, some individuals will stay in a more catabolic state most of the time. These individuals are said to be experiencing a catabolic imbalance.

Our cells are made up of different types of fats. (Fatty acids and sterols.) With too many fatty acids, in the cell membrane, and not enough sterols, we could be predisposed to get stuck in a catabolic state. If there are too

many sterols and not enough fatty acids, our body can be predisposed to become stuck in an anabolic state (The opposite of a catabolic state).

To make the body operate correctly we need to oscillate back and forth from the anabolic state at night, while we sleep, and a catabolic state during the day, while we're active. Without this natural oscillation, problems like insomnia or bacterial problems are more likely.

Since an overly catabolic state can be described as a lack of sterols at the cellular level, increasing your intake of sterols, such as butter or coconut oil, can be one method to help improve this imbalance. However, I find that most individuals with this imbalance really need to use more nutrients like specific vitamins, minerals and amino acids as well in order to see lasting improvement, but increasing your sterol intake can be a great place to start.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Insomnia
- Migraines
- Chronic Diarrhea or Loose Stool
- Hair Falling Out
- Muscle Loss
- Chronic Pain
- Loss of Connective Tissue or difficulty in healing
- Aging Quickly - Joint and muscle pain; arthritis (especially rheumatoid)
- Bacterial Problems

- Oliguria (Insufficient Urination, perhaps often but in small amounts)
- Low Body Temperature

Anabolic imbalance

If your tests gave some indications that you have an Anabolic Imbalance, you should know this is also a cellular permeability imbalance, but opposite of the catabolic imbalance.

During the day, our cell walls are intended to open up (much like a flower) so nutrients can get in and out more easily. At night, our cell walls are intended to become more closed (again like a flower) so nutrients cannot get in and out as easily. This "more closed" state is called an anabolic state.

Though it is very appropriate for the cells to be in an anabolic state at night, some individuals will stay in a more anabolic state most of the time. These individuals are said to be experiencing an anabolic imbalance.

Weightlifters take anabolic steroids in order to be in the tissue-building, anabolic state when they are not playing fair with muscle building.

Our cells are made up of different types of fats (Fatty acids and sterols). If there are too many sterols, in the cell membrane, and not enough fatty acids, our body can be predisposed to become stuck in an anabolic state (as described above). With too many fatty acids and not enough sterols, we could be predisposed to get stuck in a catabolic state (The opposite of an anabolic state).

To make the body operate correctly we need to oscillate back and forth from the anabolic state at night, while we sleep, and a catabolic state during the day, while we're active. Without this natural oscillation, problems like constipation or viral problems are more likely.

When the body shifts from anabolic to catabolic, that's when the endorphins in the brain are released, which can help people from becoming depressed.

Since an overly anabolic state can be described as a lack of fatty acids at the cellular level, increasing your fatty acid intake can be one method to help improve this imbalance. However, I find that most individuals with this imbalance really need to use more nutrients like specific vitamins, minerals and amino acids as well in order to see lasting improvement, but increasing your fatty acid intake can be a great place to start.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Constipation/hard stool
- Tachycardia
- Anxiety/panic attacks
- Frequent urination
- Difficulty awakening in the morning
- Viral problems
- UTI or Bladder Infections

Energy production (metabolic tendency)

Every wonder...

- What's the best diet to lose fat?
- What does mental performance and emotional health have to do with burning fat?
- What is the underlying physiological cause of most depression/anxiety/& mental illness?

- How can I tap into the tens of thousands of calories of real energy I carry around with me every day?
- Why can't I burn this body fat no matter how hard I work-out or however strict I diet?
- What's the key to happiness? (Really though, at least part of the puzzle is answered below in understanding the relationship of energy metabolism and brain function.)
- How can I have the body of my dreams AND my sanity at the same time?

Fortunately for us, burning fat, emotional health and mental performance all go together in a balanced body. So while the full answer to the questions above is a bit complicated, the combined rewards are great enough to merit a little cognitive effort on our part.

The rate at which we burn through different energy sources, and which types of energy sources (fats, carbohydrates, and proteins) significantly impacts the amount of energy we have to think, move, exercise and also how we feel emotionally. To simplify matters though, let us talk about the metabolic behaviour in terms of one's Metabolic Tendency. Your Metabolic Tendency refers to your body's tendency to burn through carbohydrates for energy quickly or slowly. If your body burns through carbohydrates quickly, you may be classified as a "Fast Oxidiser". If you burn through carbohydrates slowly, you could be classified a "Slow Oxidiser". Further, if you do not burn through any energy source efficiently, you could be classified as a "Sub Oxidiser".

Sometimes this Slow/Fast /Sub oxidiser status has been referred to as a Metabolic Type, but "Tendency" is a more accurate and useful

term to use because, whether you have a slow, fast, or sub oxidation rate you can correct your body's tendency through intelligent nutritional & dietary choices. These intelligent choices can resolve imbalances in oxidation speed and optimise your metabolism. Once your metabolism is optimised, are you still a fast or slow or sub oxidiser? No. Once corrected, you're not that type anymore. So, to label yourself a "Type" is misleading and disempowering because it can make people assume they are stuck as that type when, in fact, remedy exists.

For maximum energy production, we have a balanced oxidation rate - which would mean that our body has a steady stream of energy available to it at all times - which requires that we are efficient at metabolising all fuel sources (carbs, fat & protein) AND that our diet provides the right kinds and ratios of fuel sources and the cofactors necessary to process them.

There are various reasons that our body may have a tendency to lean towards being a fast, slow, or sub oxidiser and they can all be corrected. Once they are corrected, you will experience a huge, huge, huge increase in your vitality, your ability to burn fat, be happy and to think effectively and with borderline superhuman endurance.

Usual Causes of Undesirable Metabolic Tendencies

Slow Oxidiser

- Vitamin &/or Mineral Deficiencies
- Insufficient carbohydrates in diet
- Weak Insulin due to pH imbalance
- Hypoglycaemia

- Impaired glycolysis due to allergy, poison, infectious disease, parasites, antibiotics and/or medication.
- Physical, mental and/or emotional stress
- Lack of sleep

Fast Oxidiser

- Vitamin &/or Mineral Deficiencies
- Impaired ability to digest fats and protein
- Insufficient fat and protein in diet
- Overly powerful insulin due to pH imbalance
- Hyperglycaemia
- Impaired liver function due to liver damage or mineral deficiencies
- Impaired bile production &/or bile secretion
- Poor carbohydrate choices (high glycaemic or processed/fibreless sugar or starch)
- Impaired protein &/or fat metabolism due to allergy, poison, infectious disease, parasites, antibiotics and/or medication
- Physical, mental and/or emotional stress
- Lack of sleep

Sub Oxidiser

- Vitamin &/or Mineral Deficiencies
- Poor protein intake
- Insufficient oxidation due to pH imbalance or overabundance of anti-oxidants
- Lack of exercise
- Lack of sleep

Scientifically Speaking...

The fast oxidiser produces pyruvate and o-acetate faster than he does acetate, and is thus deplete of the most potentially bountiful source of energy in the body/diet: acetate. The slow oxidiser is in essentially the same problem, but for opposite reasons: while he is not deplete of acetate as the fast oxidiser is,

he cannot access it because he is not producing sufficient quantity of cofactors that are required to metabolise acetate: pyruvate and o-acetate.

In either Metabolic Tendency, the same problem occurs: an insufficient breakdown of acetate in the citric acid cycle (impaired fat metabolism). This is what generally causes and/or significantly contributes to low energy (i.e. chronic fatigue), mental and emotional disease and obesity.

Simply Speaking...

If you burn through carbohydrates too quickly (fast oxidiser) due to poor diet choices or ineffective digestion of proteins or fats, then you cannot tap into those most abundant sources of energy (protein and fat) that could come from your diet & body energy reserves. If you burn through carbohydrates too slowly (slow oxidiser) then your body lacks all the pieces of the metabolic puzzle needed to burn fat and protein for energy.

Metaphorically Speaking...

Think of carbohydrates as the kindling needed to start a fire. Your salivary enzymes are the match that initially lights the kindling. The kindling provides some immediate warmth and light (energy), but it's not the real fire. Your body fat and dietary fats and proteins are the major fuel for the fire - they are the big logs that will give you abundant warmth and light (real metabolic energy). The energy from the kindling literally dims in comparison to the potential fire from the big logs, BUT you can't get the fire going with the big logs if you didn't start with the kindling first. Same so in our body - essential digestive intermediaries created as sugar is metabolised as necessary to start the

metabolic utilisation of energy from stored body fat and dietary fats and proteins.

Beta slow oxidiser imbalance

If your tests gave some indications that you have a Beta Slow Oxidiser Imbalance you should know that it is an imbalance deals with energy production and how the body uses food for fuel. To create energy, for the most part, our body burns either fat or glucose (to keep this explanation simple). Your body is made to burn both types of fuel for different purposes. But changes can occur in our body or in our lives that will train the body to prefer one fuel over the other and it may stop burning the other type of fuel almost altogether.

If your test showed that you have a Beta Slow Oxidiser imbalance, then you most likely are burning much more fat than glucose. If you also have high cholesterol, high triglycerides and a high fasting glucose, any of these markers can be another indication that you are not processing glucose effectively.

In order to process sugar or glucose, the body is having to take all sugar or glucose coming into a person and turn it into fat before it is able to be "burned" for energy.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Lack of energy; physical and mental fatigue
- Type II diabetes
- Metabolic syndrome (or insulin resistance)

- High blood pressure or cardiovascular disease
- Weight gain
- Gall bladder trouble

Tri-Carb fast oxidiser imbalance

If your tests gave some indications that you have a Tri-Carb Fast Oxidiser Imbalance you should know that a Tri-carb is a person who is predisposed to burn off all his glucose and does not like burning fat. Now, it's not that he won't burn fat, but he will always prefer to burn off all of his glucose first. This is what is commonly referred to as a hypoglycaemic. But the hypoglycaemic can also be a step away from becoming diabetic.

But if he's hypoglycaemic, how can he be a step away from becoming diabetic? Well, it's because many hypoglycaemics have way too much insulin in the system and their system responds as though there were five furnaces in the house. And every time the house gets cold, instead of one furnace coming on and slowly warming the house up and then turning off, FIVE furnaces turn on and the house is hotter than a son of a gun before the furnaces shut down. And so that's how it goes with the insulin. These individuals have become insulin resistant but they have not been insulin resistant long enough that the cells have stopped responding to the insulin altogether. We're at that stage where we are still responsive enough to the insulin that when the pancreas produces up to 5 times the amount of insulin it normally would, it reaches a critical level and all the sugar goes into the cells at one time. This person can get very severe headaches in the front of his head. This person may also complain that the head feels full or he'll get fuzzy brained, and

this is due to the blood sugar dropping far too rapidly. This can make a person extremely miserable.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Lack of energy; physical and mental fatigue
- High or low blood sugar
- Shortness of breath
- High cholesterol
- Over-weight or under-weight
- Irritable when hungry

Autonomic nervous system orientation

The autonomic nervous system (ANS) is the part of the peripheral nervous system that acts as a control system functioning largely below the level of consciousness, and controls visceral functions. The ANS affects heart rate, digestion, respiratory rate, salivation, perspiration, pupillary dilation, micturition (urination), and sexual arousal. Most autonomous functions are involuntary but a number of ANS actions can work alongside some degree of conscious control.

Everyday examples include breathing, swallowing, and sexual arousal, and in some cases functions such as heart rate.

Our Autonomic Nervous System has two main modes of operation: Sympathetic Nervous System Activity and Parasympathetic Nervous System Activity. The Sympathetic Nervous System mode, is often referred to as the "fight or flight" mode, while Parasympathetic

mode is usually referred to as the "rest and digest" mode.

Each orientation of the nervous system has its usefulness, and a healthy body can and should easily oscillate between the two modes in response to the surrounding environment and life circumstances. In a healthy individual, when a threat arises or some intense physical activity must be performed, the ANS should shift into sympathetic mode, but when the activity/stress subsides and the person goes to do something more relaxing, like eat dinner, the nervous system should shift into parasympathetic mode.

If the nervous system performs these shifts well then all the body organs, enzymes and internal processes follow suit just fine and all's well, but if the ANS is out of whack due to nutritional deficiencies, mineral imbalances, excessively stressful circumstances, or even excessively sedating circumstances, then the body's attempts to perform even basic metabolic functions such as digesting food or producing energy may falter. If the ANS is out of balance for an extended period of time, this can lead to major hormonal imbalances and metabolic disorders.

Sympathetic imbalance

Sympathetic Dominance refers to the Autonomic Nervous System (ANS). The ANS is a mechanism in the body that happens without you consciously thinking about it. We don't have to think about whether our heart is beating, it just does. The other side of the nervous system is the Parasympathetic Dominance or the part of the nervous system that you can control.

The Sympathetic side is the speed side of flight or fight response. And the

Parasympathetic side is the slow side- or rest and digest- side. These two systems are hardwired in a sense to the heart, the entire digestive system, and all the lower level glands, organs, and systems.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Large Pupil Size
- Low Levels of Urination
- Increased Temperature
- Sweaty Hands
- Dry mouth/eyes/nose
- Get chilled often
- Extremities Cold
- Unable to Relax
- Strong Light Irritates

Parasympathetic imbalance

If your tests gave some indications that you have a Parasympathetic Imbalance it will help to know that this imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Allergies
- Asthma
- Small Pupils
- Frequent Urination
- Increased Saliva
- Muscle Cramps at Night
- Eyes or Nose Watery
- Eyelids Swollen
- Gag Easily

- Poor Circulation

Dynamic pH balance

To start off this section, I would like to first clear up some rapidly spreading misinformation regarding pH balance. It has become a popular health fad to promote the idea that alkalinity is somehow "better" than acidity. To this, we'd like to respond by citing the astute words of Dr. Guy Schenker, D.C.:

*"In truth, excess alkalinity is just as harmful as excess acidity. To clear the confusion, all physiological systems are maintained through a negative feedback mechanism that operates in a dualistic manner. Dualistic means that for every normal condition, there are 2 abnormals – abnormally high and abnormally low. To say that there is only one abnormal with respect to pH balance is to display total ignorance of the most basic fundamentals of physiology."-'An Analytical System of Clinical Nutrition',
-Guy Schenker -, DC, 1989-2010*

When I talk about Dynamic pH Balance, it's important to remember that the body is made up of many different fluid compartments and types of cells that are meant to have very different pH's. To say that someone is simply too acidic or too alkaline is a gross and usually erroneous oversimplification of the situation. While this can get complicated, it's important to understand the nuances of what's going on here in order to really sort this out, after all, your health & vitality, and for some of you possibly even your life may depend on it.

The Reality is this:

There are numerous kinds of acid/alkaline balances in the body:

- Respiratory alkalosis
- Potassium depletion alkalosis
- Metabolic alkalosis
- Metabolic acidosis
- Potassium excess acidosis

- Respiratory acidosis

Your blood pH is reflected in your personality, or as I like to say your behaviour range.

Acidosis

When in a state of metabolic acidosis, the enzyme systems of the body are running on high speed. This pushes the sympathetic nerves of the body, and forces the adrenal glands into overdrive. In this state a person will:

- Have Agitation
- Feel Nervousness
- Have Anxiety
- Feel more like the 'hare', less like the 'tortoise'
- Feel physically tired but mentally wired
- Compensate by tending to take deeper inhalations
- Have a low tolerance for carbon dioxide and can hold breath for less than 45 seconds in metabolic acidosis

Alkalosis

When in a state of metabolic alkalosis, the enzyme systems of the body are running sub-par. This pushes down pulse and blood pressure, inhibits sympathetic activity and can contribute to low thyroid activity. In this state a person will:

- Have a difficult time getting out of bed in the morning
- Feel more like the 'tortoise', less like the 'hare'
- Feel sluggish
- Feel burned out and tired
- Have a much higher tolerance for carbon dioxide, and should be able to hold breath for 60 seconds or more.

- In metabolic alkalosis and in potassium depletion alkalosis, the saliva pH will be less than 6.6 and the urine pH will be greater than 6.3. In respiratory alkalosis, the saliva pH will tend to be higher than 6.8.

Acid imbalance

You should know that there are multiple causes of acidosis. One cause can be an imbalance in potassium or an inability of the kidneys to properly excrete the acid and balance is lost. The breathing rate in these individuals becomes accelerated because the kidneys, being unable to easily control the acid levels in the blood stream, can be helped by the lungs huffing off Co₂, because Co₂ acidifies into the blood stream. These individuals will normally have a short breath-holding time and a rapid breathing rate, exposing the fact that the kidneys are not having an easy time controlling the pH of the blood.

This can be remedied (depending on the cause) by assisting the system to buffer the acids more effectively and excrete them. But this is not just a failure to excrete acids, it's a failure to buffer them. An inability to properly digest protein can often be an issue in these cases since the biggest buffer of acids in the body is protein.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Shortness of breath
- Rapid heart rate
- Allergies

- Poor retention of important mineral nutrients
- Fluid retention
- Poor function of your kidneys, lungs, adrenal glands and many other organs and glands
- Digestive Issues

Alkaline imbalance

In a metabolic alkalosis, there are increasing levels of bicarbonate ion in relation to H⁺. There are 3 main causes of bicarbonate increase:

Direct administration or production of alkaline-sodium bicarbonate, or other antacids, can lead to metabolic acidosis. Excess bicarbonate is absorbed and the Co₂ levels begin to rise.

Acid-Losing Alkalosis - The loss of H⁺ from stomach from chronic vomiting or pyloric stenosis is a major cause of acid-losing alkalosis.

Potassium Deficient Alkalosis -This is most often caused by an excessive loss of potassium from the kidney. Intracellular potassium will move out of the cells to replace the potassium being lost in the plasma and urine. Sodium and H⁺ move into the cell to replace the potassium that has moved out. This leaves a deficit of H⁺ in the plasma. Also, H⁺ is excreted from the kidneys along with potassium. The net result of renal excretion and extracellular H⁺ loss is an increased production of H⁺ to replace that which has been lost. This results in a concomitant rise in bicarbonate or Co₂ levels (Guy Schenker).

The blood stream has a very narrow pH value that it must stay within in order for our body to function properly. If it moves too far acid or

too far alkaline, we can literally die. The body doesn't want this to happen so it does whatever it can to keep the blood stream at a balanced pH level. Alkalosis is an imbalance where the blood stream is too alkaline. When the blood leans alkaline, oxygen can't leave the bloodstream and go to the tissue level where it needs to be to help your body create the energy it needs to run properly. In science, this is known as the "Bohr effect".

If a doctor checked your oxygen levels, he would put a pulse oximeter on you and say, your oxygen is great... you have plenty. But because the blood stream is too alkaline, the oxygen cannot be released from the blood stream and go into the tissues where it needs to be and we can often feel wiped out. So, when the blood stream is too alkaline, the body will slow the rate at which you breathe. Carbon dioxide (Co₂) is acidic so the body tries to reduce the amount that you breathe so it can hold on to more Co₂ allowing it to acidify the blood stream so that some oxygen can be released from the blood stream and make it to the tissue level.

This imbalance may show itself in the form of a number of different symptoms or "conditions". The outcome may be different depending on the individual, but you may have already found yourself experiencing one or more of the following issues at some point:

- Chronic fatigue
- Sleep apnea
- Joint and muscle pain; arthritis
- Allergies; asthma
- Muscle cramps
- Fluid retention

Example

Energy production metabolic control mechanism

Fats or Carbs? Which of these does your body like best?

Whatever your health and/or fitness goals, finding what's right for you is far more important than calorie counting. It doesn't matter how much or little you eat - if your body can't make use of it, your energy levels are going to drop, your waistline is going to expand and your health is going to suffer.

One size does not fit all!

What's right for you is influenced not only by the quality of what you put in, but also your Metabolic Individuality and how your body makes use of it.

Metabolic individuality

Each of us is metabolically unique, not only in **who** we are but in **how** our body operates.

The high performance machine inside all of us

Let's look at the high performance race car that lies inside each of us - how we fuel, drive and service ourselves ultimately determines performance and longevity.

Great! But what's right for YOU?

Imagine you had warning lights like on your cars dashboard, lights that would let you know when you are running low on fuel, when you need an oil change or if you're overheating...

Well you do have warning lights; you just need to know how to read them!

Metabolic Analysis shows us your body's dashboard; it provides the keys to unlocking

the key nutrition and lifestyle tools, which fit your metabolic individuality and your health goals. Metabolic Analysis measures a series of key metabolic indicators that can ID what works for you and eliminate what doesn't.

So what's your fuel of choice?

Our bodies run on two primary fuels – carbohydrates and fats. Here are some clues as to whether carbs or fats work best for you.

Prefer Carbohydrates

A carb burner's metabolism burns carbs more easily than fats. Dietary fats are not effectively turned into energy, instead may stress the liver and be stored as body fat.

Prefer Fats

A fat burner's metabolism burns fats more easily than carbs. Dietary carbs are not effectively turned into energy, can cause blood sugar problems and are stored as body fat.

Knowing your body's preferred fuel can help you select the best foods to provide lasting energy and achieve the results you're after:

- ✓ Fast and sustainable weight loss
- ✓ Boost energy levels
- ✓ Develop lean muscle
- ✓ Resolve digestive problems
- ✓ Help your body heal
- ✓ Stay mentally alert and focussed

Test yourself

1. Lay down and make yourself comfortable
2. Make sure you have a stopwatch or clock which counts in seconds

- Count your resting breath rate over one minute, try not to control it - It's not a competition to see how "fit" you are. Your breath rate helps us determine how your body processes different fuels
- Next, take 3 deep breaths. Hold the last one as long as you can - note your time in seconds

- Take your urine and saliva pH using pH strips available from myself or most Chemist stores

NB: for the most accurate results these tests are best performed at least 2 hours after your most recent meal

If you are a fat burner	If you are a carb burner
Clues	Clues
Your resting breath rate is less than 15 breaths per minute	Your resting breath rate is more than 16 breaths per minute
You can hold your breath longer than 50 seconds	You can hold your breath less than 50 seconds
Your urine pH is below 6.0*(not your first morning urine)	Your urine pH is above 6.5*(not your first morning urine)
Your saliva pH is above 7.0*	Your saliva pH is below 6.5*

How it works

The clues above are not guesswork but are founded on real science. The body uses different biochemical pathways to turn different foods into energy. These pathways produce different wastes which the body expels in different ways.

Urine and saliva pH (acid vs alkaline)

Burning carbohydrates for energy produces carbon dioxide (CO²), an acid waste our body expels via the lungs and which dissolves into our saliva.

While burning fats produces other acid wastes which are expelled through the kidneys in urine.

Therefore...

- The breath and saliva pH of an individual who predominantly burns carbs for energy (producing more CO²) will be more acidic than that of a fat burner.

- The urine of a fat burner carries more waste acids and will therefore be more acidic than that of a carb burner producing CO².

Breath rate and breath hold time

The amount of Carbon dioxide your metabolism produces directly affects your breathing. It is actually not our body's need to inhale oxygen which governs our breath rate, but its need to expel acidic CO².

So to keep it simple, if you have a faster breath rate and can't hold your breath for long you're likely to be a carb burner (producing more CO²) if your breath rate is slower and you can hold it for longer, this points towards you being a fat burner (producing less CO²).

And there you have it. Through these simple and easy "do it yourself" tests You now have a

pretty good idea whether your body prefers fats or carbs. You can now put this information to use and take a more informed approach to your health and performance.

Please note: These clues provide an indication but are not an absolute picture. Breath rate and hold time can be affected by your awareness of the process while urine and

saliva pH are also influenced by other metabolic indicators I test for.

Metabolic Analysis can put everything into perspective and provide you with an accurate assessment of your body's fuel preference and of 9 other indicators of your own unique metabolism.

How to nourish and rebalance yourself (energy production example)

If you are a fat burner	If you are a carb burner
<p>Food Solutions</p> <ul style="list-style-type: none"> Choose high quality fats as your primary fuel - olives, avocados, coconuts, nuts, seeds and their oils Choose non starchy vegetables; cucumber, celery, capsicum, broccoli, cauliflower, cabbage, leafy greens etc. 	<p>Food Solutions</p> <ul style="list-style-type: none"> Choose high quality carbs as your primary fuel - fresh fruits, non-starchy vegetables, germinated grains and legumes Choose small amounts of olives, avocados, coconuts, nuts, seeds and their oils
<p>Avoid refined or cooked starchy carbs</p>	<p>Avoid cooked and refined vegetable fats or oils</p>
<p>Supplement Solutions **The mineral chromium and spice cinnamon improve carbohydrate metabolism</p> <p>Lifestyle Solutions Exercise, especially high intensity, improves insulin sensitivity and your body's uptake of sugar</p>	<p>Supplement solutions ** "Bile flow" enhances your body's absorption and metabolism of dietary fats</p> <p>Lifestyle Solutions Low intensity exercise helps your body burn fats better</p>

** Specific supplements which help your metabolism handle carbs or fats more effectively are available from Mark.

The testing process

The testing process takes approximately two hours and includes taking a urine and saliva sample at the beginning of the session.

A number of physiological tests along with an in depth questionnaire is then completed before I do a final assessment of all testing carried out.

Your test results are available immediately and I will be talking you through our findings and imbalances at the end of the session. Everything I talk about including details of all imbalances and what you need to do in order to rebalance them will be uploaded to your customised client support system webpage (see next section).

What happens next?

Online client support & progress tracking system

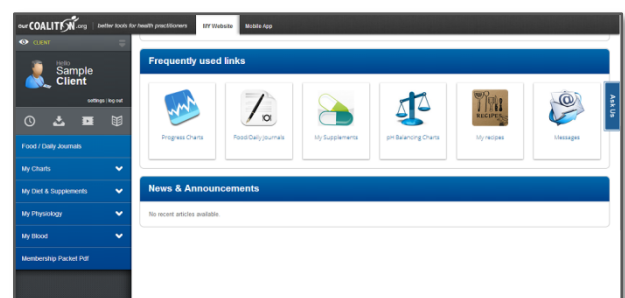
This is where things get very interesting and the enormous power of what I am offering with this program starts to come into play. As an option over and above your initial consultation, assessment results, including any imbalances identified are then uploaded into our web-based client support and tracking system. I then setup and customise your own website which you will be using for a minimum of 3 months to track your progress, learn about your imbalances, upload further self-testing results, understand your chemistry, access your specific diet and recipe recommendations (designed specifically for your particular biochemistry).

Using this incredibly powerful system, I will be able to monitor your progress charts and know when corrective actions may need to be discussed, and so will you. You will know objectively if the support you are getting is doing what it is supposed to be doing - making you healthier! Therefore using this system will

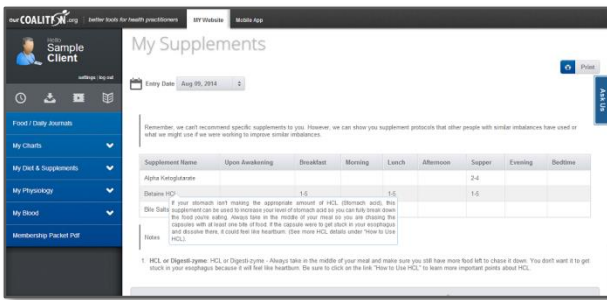
not only be a way to measure yourself, but also a way to measure how effective I am with helping you.

Here are a few images of what your webpage and functionality will look like:

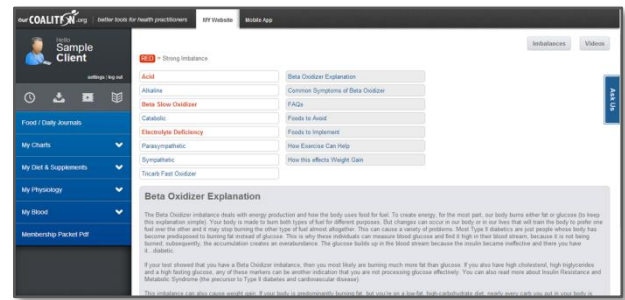
YOUR customised website interface



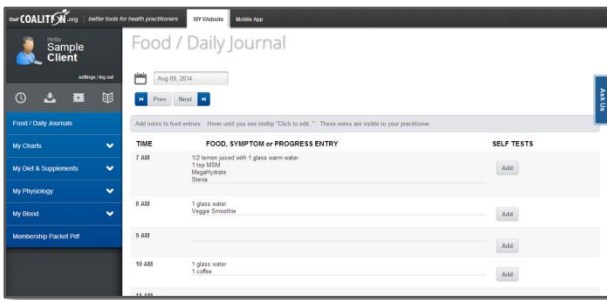
Example of one of your progress tracking charts



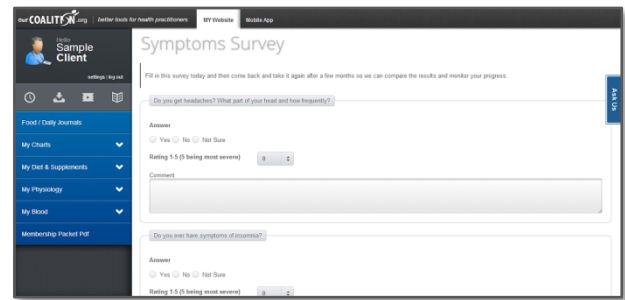
Any recommended supplementation, times for taking them and 'popup' descriptions are easily accessible



Metabolic imbalance explanations, FAQ's, foods to avoid etc. are easy to access



Food journals help keep track of your diet and help us identify issues if things go off track



A symptom survey is available to keep track of improvements over time

Your investment

- Live and Dry blood analysis - \$140.00
- Full health assessment & coaching support program - includes Metabolic Analysis and Live & Dry Blood analysis - \$350.00
- World-wide, (self-testing) health assessment and coaching support program (for people who cannot see me in person) - \$199.00

Live & dry blood analysis (1 hour) includes:

- Pre-consultation questionnaire
- Live blood analysis
- Dry layer oxidative stress test (dry blood analysis).
- Diet and supplementation recommendations.
- Lifestyle analysis and 'moving forward' recommendations & strategy.

- Your Live & dry blood photos.

Full assessment (2 hours) includes:

- Pre-consultation questionnaire
- Live blood analysis
- Dry layer oxidative stress test (dry blood analysis).
- Full Metabolic Analysis

- Assessment results are available at end of the session – you will know where your body currently stands in regards to metabolic and bio-chemical balance and what you need to do in order to bring your homeostatic control mechanisms back into balance before you walk out the door.
- Customised diet and supplementation recommendations.
- Lifestyle analysis and ‘moving forward’ recommendations & strategy.
- Setting up your web-based Client Support System (customised page for you) and uploading results, blood images, diet and supplementation protocol etc. to system.
- Self-testing instructions (so that you can upload your self- testing results to your own customised website).
- 3 months progress tracking and coaching support via our online Client Support System.
- Phone / Skype support for urgent matters that cannot be dealt with via our client management system.

World-wide, (self-testing) health assessment and coaching support program:

- Questionnaire
- Comprehensive Metabolic and Body Chemistry Analysis via our web-based self-testing process.
- 45 minute Skype consultation to walk you through your results and to take you through the client management system.
- Customised diet and supplementation recommendations.
- Lifestyle analysis and ‘moving forward’ recommendations & strategy.
- Setting up your web-based Client Support System (customised page for you) and

uploading your results, diet and supplementation protocol & information on your imbalances etc. to system.

- 3 months progress tracking and coaching support via our online Client Support System.
- Phone / Skype support for urgent matters that cannot be dealt with via our client management system.
- Pay here for world-wide program: <http://www.biosynergypro.com/www-payment.html>

Notes:

- Through this process you are going to learn more about your health and biological individuality than you’ve ever learnt before.
- Your health issues didn’t manifest overnight – don’t expect them to be necessarily fixed overnight. My aim is for you to start seeing improvements within 10 days. Sometimes great things start to happen almost immediately, other times they take longer. It all depends. When you get your body back into balance, magic really can and does start to happen.
- I guarantee results. However, being committed to making the changes in your diet and lifestyle necessary for positive change to happen, learning about your imbalances and tracking your progress is a prerequisite to me working with you. It would not be fair on me and it would not be fair on you if I do not have this commitment. I cannot heal you – only you can do this for yourself.
- Client Support System registration is an additional (separate) \$20 which covers one year and is a requirement for both the Full (one-on-one) assessment and world-wide program.

Some important things to keep in mind are that:

- Taking charge of your own health includes understanding as much as possible about how the way your body functions or malfunctions. This is the primary focus of everything I do – education, education and more education.
- Unless you are very healthy you most likely will have to spend another \$100.00

to \$150.00 on supplements. But instead of the “hit and miss” approach most of us take to vitamins, herbs, enzymes and other supplements, you will only be taking those you specifically need for your condition. And once your body is back into ‘balance’ your need for supplementation will be at an absolute minimum – just as nature intended.

Contact details

Office: Burleigh Heads Chiropractic Centre. 2 / 1846 Lower Gold Coast Highway, Burleigh Heads – FREE PARKING !!

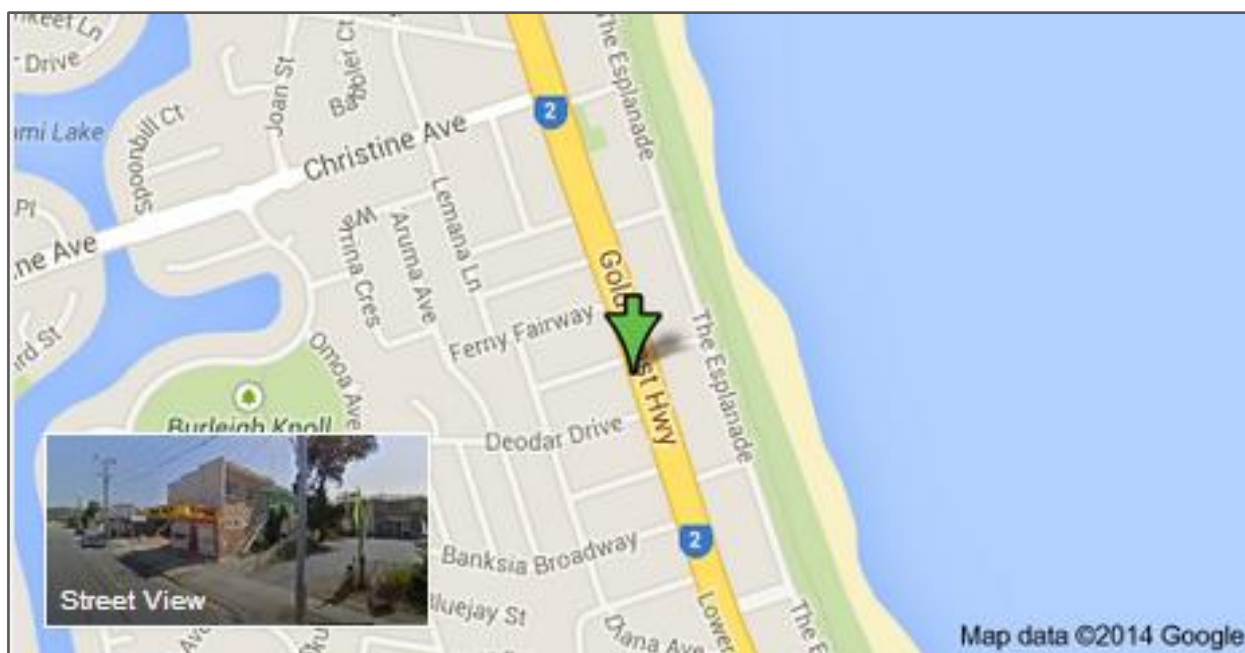
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Facebook Group: <https://www.facebook.com/groups/biosynergyhealth>



Some legal stuff

Because I've just gotta do it...

I understand that Mark Hathaway provides educational assistance, tutoring, consulting and coaching services to help me understand concepts in nutrition, diet, food and other areas deemed important in order to live a fuller and healthier life, and in association with this education to learn specifically of the foods, dietary supplements or more that can assist in balancing my state of health.

I further request and accept the use of any tools of the "health trade," and at my sole discretion under retained right, in whatever form available in a free market that may be provided for my use to further my health education be it software, workshops, testing or health auditing apparatus, clinical or laboratory equipment.

I understand that Mark Hathaway has received certification in Flow Systems technology for health auditing through professional training programs from Biomedx (Chicago), but is neither offering nor providing a service under this agreement under any official government certification and/or license as a health, or diet professional.

I understand that the health coaching services under this agreement does not, cannot, and will not provide any diagnosis, prescription, or treatment options for any medically or otherwise defined health ailment wherein only a licensed professional may be competent to address such issue, and further, should miscommunication result in a perception that such is the case, I acknowledge that I alone bear full responsibility for any actions taken due to the miscommunication. At no time is this coaching service intended as a substitute for regular medical or other licensed care.

I understand that I assume all risks from the use, non-use or misuse of information, materials or opinions provided by Mark Hathaway during my health coaching session or presentation.