

What you are about to read is one of the most important documents on this site. In 1936 *immune suppression* with resultant illness was already a problem in humans, plants and animals. Dr. Charles Northen, M.D. correctly diagnosed the problem as a soil deficiency in minerals. Those of you who know our base approach to be the mineral analysis and correction of minerals body stores will see the true reasoning behind this. Furthermore, you will also understand why we go to such extremes to grow our own food and apply the lessons learned so long ago and forgotten by “modern” science.

Being reflective upon this document reveals that all modern medicine is an attempt to fix what only proper nutrition will allow. This applies not only to conventional physicians, but to all of the allied and alternative health practitioners who think patients are walking wallets. In ignoring the criticality of proper nutrition one is sure to find somewhere deep down in their psyche the primal need to keep their patients ill.

Personally, our family has been growing some of our own vegetables for many years and have always encouraged patients to do the same. Now we are gardening as if our lives depend upon it - and they do. My husband and I had a serious accidental pesticide exposure 30 or so years ago and have abiding damage: we can not eat out, must have organic food only, and even react to some “so called” organic vegetables and fruits.

Our view from the country tells us to put the nutrition into the soil and derive that nutrition from the plants and animals that live off that soil. We were fortunate to come across ACRES USA, a monthly publication of eco-agriculture; and got to know the late editor, Charles Walters, from whom we learned a great deal. If you are interested in growing *more* than organic, ACRES has many books on how to grow nutrition both in soil and in vegetables and meat! ACRES is our best source. Subscribe to their magazine and browse their books and videos. ACRES USA - It is the right place for you to start learning how to grow your own nutrition. <http://www.acresusa.com/>

We were fortunate to be associated with Natural Foods Associates in Atlanta, Texas, many years ago. They were an organization dedicated to teaching people how to grow nutritious food, something that is more than needed today. Being city dwellers for fifty years, they helped teach us how to grow food. There are tricks, but nothing is that difficult. There are excellent soil analysis companies like Kinsey Agricultural Services <http://www.kinseyag.com/> and International Ag Labs <http://www.aglabs.com/> that will put your soil back into proper balance. We use Watson Ranch Organic products to supplement the soil and our plants with that which is lacking from our homemade composted manure. <http://www.watsonranchorganic.com/> These are but a few suppliers of things you will need to make your gardening experience easy and nutritious. Drop by a Tractor Supply store and pick up a copy of ACRES, USA. Get started!

There is a very serious compact summary of agriculture-gate found in my *How We Get Sick, Stay Sick, and What We Must Do to Get Well*. Also see my outline for the lecture: Agriculture-gate. The commercial food industry, including “commercial organic” is not your friend. Learn this lesson before it is too late. PBMD

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MODERN MIRACLE MEN

AN ARTICLE
BY
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PROPER FOOD MINERAL BALANCES BY
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MODERN MIRACLE MEN
DR. CHARLES NORTHEN, WHO BUILDS HEALTH FROM THE
GROUND UP

This quiet, unballyhooed pioneer and genius. in the field of nutrition demonstrates that countless human ills stem from the fact that impoverished soil of America no longer provides plant foods With the mineral elements essential to human nourishment and health! To overcome this alarming condition, he doctors sick soils and, by seeming miracles, raises truly healthy and health-giving fruits and vegetables

(By Rex Beach)

Do you know that most of us today are suffering from certain dangerous diet deficiencies which cannot be remedied until the depleted soils from which our foods come are brought into *proper mineral balance*?

The alarming fact is that foods-fruits and vegetables and grains now being raised on millions of acres of land that no longer contains enough of certain needed minerals, are starving us-no matter how much of them we eat!

This talk about minerals is novel and quite startling. In fact, a realization of the importance of minerals in food is so new that the textbooks on nutritional dietetics contain very little about it. Nevertheless, it is something that concerns all of us, and the further we delve into it the more startling it becomes.

You'd think, wouldn't you, that a carrot is a carrot - that one is about as good as another as far as nourishment is concerned? But it *isn't*; one carrot may look and taste like another and yet be lacking in the particular mineral element which our system requires and which carrots are supposed to contain. Laboratory tests prove that the fruits, the vegetables, the grains, the eggs and even the milk and the meats of today are not what they were a few generations ago (Which doubtless explains why our forefathers thrived on a selection of foods that would starve us!) No man of today can eat enough fruits and vegetables to supply his system with the mineral salts he requires for perfect health, because his stomach isn't big enough to hold them! And we are running to big stomachs.

No longer does a balanced and fully nourishing diet consist merely of so many calories or certain vitamins or a fixed proportion of starches, proteins, and carbohydrates. We now know that *it must contain, in addition, something like a score of mineral salts.*

It is bad news to learn from our leading authorities that *99 percent of the American people are deficient in these minerals, and that a marked deficiency in anyone of the more important minerals actually results in disease.* Any upset of the balance, any considerable lack of one or another element, however microscopic the body requirement may be, and we sicken, suffer, shorten our lives.

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This discovery is one of the latest and most important contributions of science to the problem of human health.

So far as the records go, the first man in this field of research, the first to demonstrate that most human foods of our day are poor in minerals and that their proportions are not balanced, was Dr. Charles Northen, an Alabama physician now living at Orlando, Fla. His discoveries and achievements are of enormous importance to mankind.

Following a wide experience in general practice, Dr. Northen specialized in stomach diseases and nutritional disorders. Later, he moved to New York and made extensive studies along this line, in conjunction with a famous French scientist from the Sorbonne. In the course of that work he convinced himself that there was little authentic, definite information on the chemistry of foods, and that no dependence could be placed on existing data.

He asked himself how foods could be used intelligently in the treatment of disease, when they differed so widely in content. The answer seemed to be that they could not be used intelligently. In establishing the fact that serious deficiencies existed and in searching out the reasons therefor, he made an extensive study of the soil. *It was he who first voiced the surprising assertion that we must make soil building the basis of food building* in order to accomplish human building.

"Bear in mind," says Dr. Northen, "that minerals are vital to human metabolism and health-and that no plant or animal can appropriate to itself any mineral which is not present in the soil upon which it feeds.

"When I first made this statement I was ridiculed, for up to that time people had paid little attention to food deficiencies and even less to soil deficiencies. Men eminent in medicine denied there was any such thing as vegetables and fruits that did not contain sufficient minerals for human needs. Eminent agricultural authorities insisted that *all* soil contained all necessary minerals. They reasoned that plants take what they need, and 'that it is the function of the human body to appropriate what it requires. Failure to do so, they said, was a symptom of disorder.

"Some of our respected authorities even claimed that the so-called secondary minerals played no part whatever in human health. It is only recently that such men as Dr. McCollum of Johns Hopkins, Dr. Mendel of Yale, Dr. Sherman of Columbia, Dr. Lipman of Rutgers, and Drs. H. G. Knight and Oswald Schreiner of the United States Department of Agriculture have agreed that these minerals are essential to, plant, animal, and human feeding.

"We know that vitamins are complex chemical substances which are indispensable to nutrition, and that each of them is of importance for the normal function of some special structure in the body. Disorder and disease result from any vitamin deficiency.

"It is not commonly realized, however, that vitamins control the body's appropriation of minerals, and in the absence of minerals they have no function to perform. Lacking vitamins, the system can make some use of minerals, but lacking minerals, vitamins are useless.

"Neither does the layman realize that there may be a pronounced difference in both foods and soils - to him one vegetable, one glass of milk, or one egg is about the same as another. Dirt is dirt, too, and (MODERN MIRACLE MEN 3) he assumes that by adding a little fertilizer to it, a satisfactory vegetable or fruit can be grown.

"The truth is that our foods vary enormously in value, and some of them aren't worth eating, as food. For example, vegetation grown in one part of the country may assay 1,100 parts, per billion of iodine, as against 20 in that grown elsewhere. Processed milk has run anywhere from 362 parts, per million, of iodine and 127 of iron, down to nothing.

"Some of our lands, even in a virgin state, never were well balanced in mineral content, and unhappily for us, we have been systematically robbing the poor soils and the good soils alike of the very substances most necessary to health, growth, long life, and resistance to disease. Up to the time I began experimenting, almost nothing had been done to make good the theft.

"The more I studied nutritional problems and the effects of mineral deficiencies upon disease, the more plainly I saw that here lay the most direct approach to better health, and the more important it became in my mind to find a method of restoring those missing minerals to our foods.

"The subject interested me so profoundly that I retired from active medical practice and for a good many years now I have devoted myself to it. It's a fascinating subject, for it goes to the heart of human betterment."

The results obtained by Dr. Northen are outstanding. By putting back into foods the stuff that foods are made of, he has proved himself to be a real miracle man of medicine, for he has opened up the shortest and most rational route to better health.

He showed first that it should be done, and then that it could be done.

He doubled and redoubled the natural mineral content of fruits and vegetables.

He improved the quality of milk by increasing the iron and the iodine in it.

He caused hens to lay eggs richer in the vital elements.

By scientific soil feeding, he raised better seed potatoes in Main, better grapes in California, better oranges in Florida and better field crops in other States. (By "better" is meant not only an improvement in food value but also an increase in quality and quantity.)

Before going further into the results he has obtained, let's see just what is involved in this matter of "mineral deficiencies", what it may mean to our health, and how it may affect the growth and development, both mental and physical, of our children.

We know that rats, guinea pigs, and other animals can be fed into a diseased condition and out again *by controlling only the minerals in their food.*

A 10-year test with rats proved that by withholding calcium they can be bred down to a third the size of those fed with an adequate amount of that mineral. Their intelligence, too, can be

controlled by mineral feeding as readily as can their size, their bony structure, and their general health.

Place a number of these little animals inside a maze after starving some of them in a certain mineral element. The starved ones will be unable to find their way out, whereas the others will have little or no difficulty in getting out. Their dispositions can be altered by mineral (4 MODERN MIRACLE MEN) feeding. They can be made quarrelsome and belligerent; they can even be turned into cannibals and be made to devour each other.

A cageful of normal rats will live in amity. Restrict their calcium, and they will become irritable and draw apart from one another. Then they will begin to fight. Restore their calcium balance and they will grow more friendly; in time they will begin to sleep in a pile as before.

Many backward children are "stupid" merely because they are deficient in magnesia. We punish them for our failure to feed them properly.

Certainly our physical well-being is more directly dependent upon the minerals we take into our systems than upon calories or vitamins or upon the precise proportions of starch, protein, or carbohydrates we consume.

It is now agreed that at least 16 *mineral elements are indispensable for normal nutrition*, and several more are always found in small amounts in the body, although their precise physiological role has not been determined. Of the 11 indispensable salts, calcium, phosphorus, and iron are perhaps the most important.

Calcium is the dominant nerve controller; it powerfully affects the cell formation of all living things and regulates nerve action. It governs contractility of the muscles and the rhythmic beat, of the heart. It also coordinates the other mineral elements and corrects disturbances made by them. It works only in sunlight. Vitamin *D* is its buddy.

Dr. Sherman of Columbia asserts that *50 percent* of the American people are starving for calcium. A recent article in the Journal of the American Medical Association stated that out of 4,000 cases in New York Hospital, only 2 were not suffering from a lack of calcium.

What does such a deficiency mean? How would it affect your health or mine? So many morbid conditions and actual diseases may result that it is almost hopeless to catalog them. Included in the list are rickets, bony deformities, bad teeth, nervous disorders, reduced resistance to other diseases, fatigability, and behavior disturbances such as incorrigibility, assaultiveness, nonadaptability.

Here's one specific example: The soil around a certain Midwest city is poor in calcium. Three hundred children of this community were examined and nearly 90 percent had bad teeth, 69 percent showed affections of the nose and throat, swollen glands, enlarged or diseased tonsils, More than one-third had defective vision, round shoulders, bow legs, and anemia.

Calcium and phosphorus appear to pull in double harness. A child requires as much per day as two grown men, but studies indicate a common deficiency of both in our food. Researches on farm animals point to a deficiency of one or the other as the cause of serious losses to the farmers, and when the soil is poor in phosphorus these animals become bone - chewers. Dr. McCollum says that when there are enough phosphates in the blood there can be no dental decay.

Iron is an essential constituent of the oxygen-carrying pigment of the blood: iron starvation results in anemia, and yet iron cannot be assimilated unless some *copper* is contained in the diet. In Florida many cattle die from an obscure disease called "salt sickness." It has been found to arise from a lack of iron and copper in the soil and hence in the grass. A man may starve for want of these elements just as a beef "critter" starves.

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If *iodine* is not present in our foods the function of the thyroid gland is disturbed and goiter afflicts us. The human body requires only fourteen-thousandths of a milligram daily, yet we have a distinct "goiter belt" in the Great Lakes section, and in parts of the Northwest the soil is so poor in iodine that the disease is common.

So it goes, down through the list, each mineral element playing a definite role in nutrition. A characteristic set of symptoms, just as specific as any vitamin-deficiency disease, follows a deficiency in any one of them. It is alarming, therefore, to face the fact that we are starving for these precious, health-giving substances.

Very well, you say, if our foods are poor in the mineral salts they are supposed to contain, why not resort to dosing?

That is precisely what is being done, or being attempted. However, those who should know assert that the human system cannot appropriate those elements to the best advantage in any but the food form. At best, only a part of them in the form of drugs can be utilized by the body, and certain dietitians go so far as to say it is a waste of effort to fool with them. Calcium, for instance, cannot be supplied in any form of medication with lasting effect.

But there is a more potent reason why the curing of diet deficiencies by drugging hasn't worked out so well. Consider those 16 indispensable elements and those others which presumably perform some obscure function as yet undetermined. Aside from calcium and phosphorus, they are needed only in infinitesimal quantities, and the activity of one may be dependent upon the presence of another. To determine the precise requirements of each individual case and to attempt to weigh it out on a druggist's scales would appear hopeless.

It is a problem and a serious one. But here is the hopeful side of the picture: *Nature can and will solve it if she is encouraged to do so.* The minerals in fruit and vegetables are colloidal; i.e., they are in a state of such extremely fine suspension that they can be assimilated by the human system: It is merely a question of giving back to nature the materials with which she works.

We must rebuild our soils: Put back the minerals we have taken out. That sounds difficult but it isn't. Neither is it expensive. Therein lies the short cut to better health and longer life.

When Dr. Northen first asserted that many foods were lacking in mineral content and that this deficiency was due solely to an absence of those elements in the soil, his findings were challenged and he was called a crank. But differences of opinion in the medical profession are not uncommon - it was only 60 years ago that the Medical Society of Boston passed a resolution condemning the use of bathtubs-and he persisted in his assertion that inasmuch as foods did not contain what they were supposed to contain; no physician could with certainty prescribe a diet to overcome physical ills.

He showed that the textbooks are not dependable because many of the analyses in them were made many years ago, perhaps from products raised in virgin soils, whereas our soils have been constantly depleted. Soil analyses, he pointed out, reflect only the content of samples. One analysis may be entirely different from another made 10 miles away.

"And so what?" came the query.

Dr. Northen undertook to demonstrate that something could be done about it. *By reestablishing a proper soil balance he actually grew crops that contained an ample amount of the desired minerals.*

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This was incredible. It was contrary to the books and it upset everything connected with diet practice. The scoffers began to pay attention to him. Recently the Southern Medical Association realizing the hopelessness of trying to remedy nutritional deficiencies without positive factors to work with, recommended a careful study to determine the real mineral content of foodstuffs and the variations due to soil depletion in different localities. These progressive medical men are awake to the importance of prevention.

Dr. Northen went even further and proved that crops grown in a properly mineralized soil were bigger and better; that seeds germinated quicker, grew more rapidly and made larger plants; that trees were healthier and put on more fruit of better quality.

By increasing the mineral content of citrus fruit he likewise improved its texture, its appearance and its flavor.

He experimented with a variety of growing things, and in every case the story was the same. By mineralizing the feed at poultry farms, he got more and better eggs; by balancing pasture soils, he produced richer milk. Persistently he hammered home to farmers, to doctors, and to the general public the thought that life depends upon the minerals.

His work led him into a careful study of the effects of climate, sunlight, ultraviolet and thermal rays upon plant, animal, and human hygiene. In consequence he moved to Florida. People familiar with his work consider him the most valuable man in the State. I met him by reason of

the fact that I was harassed by certain soil problems on my Florida farm which had baffled the best chemists and fertilizer experts available.

He is an elderly, retiring man, with a warm smile and an engaging personality. He is a trifle shy until he opens *up* on his pet topic; then his diffidence disappears and he speaks with authority. His mind is a storehouse crammed with precise, scientific data about soil and food chemistry, the complicated life processes of plants, animals, and human beings-and the effect of malnutrition upon all three. He is perhaps as close to the secret of life as any man anywhere.

"Do you call yourself a soil or a food chemist?" I inquired.

"Neither. I'm an M. D. My work lies in the field of biochemistry and nutrition. I gave up medicine because this is a wider and a more important work. Sick soils mean sick plants, sick animals, and sick people. Physical, mental, and moral fitness depends largely upon an ample supply and a proper proportion of the minerals in our foods. Nerve function, nerve stability, nerve cell-building likewise depend thereon. I'm really a doctor of sick soils."

"Do you mean to imply that the vegetables I'm raising on my farm are sick?" I asked.

"Precisely! They're as weak and undernourished as anemic children. They're not much good as food. Look at the pests and the diseases that plague them. Insecticides cost farmers nearly as much as fertilizer these days.

"A healthy plant, however, grown in-soil properly balanced, *can and will resist most insect pests*. That very characteristic makes it a better food product. You have tuberculosis and pneumonia germs in your system but you're strong enough to throw them off. Similarly, a really healthy plant will pretty nearly take care of itself in (MODERN MIRACLE MEN 7) the battle against insects and blights-and will also give the human system what it requires."

"Good heavens! Do you realize what that means to agriculture?"

"Perfectly. Enormous savings. Better crops. Lowered living costs to the rest of us. But I'm not so much interested in agriculture as in health."

"It sounds beautifully theoretical and utterly impractical to me" I told the doctor, whereupon he gave me some of his case records.

For Instance, in an orange grove infested with scale, when he restored the mineral balance to part of the soil, the trees growing in that part became clean while the rest remained diseased. By the same means he had grown healthy rosebushes between rows that were riddled by insects.

He had grown tomato and cucumber plants, both healthy and diseased, where the vines intertwined. The bugs ate up the diseased and refused to touch the healthy plants! He showed me interesting analyses of citrus fruit, the chemistry and the food value of which accurately reflected the soil treatment the trees had received.

There is no space here to go fully into Dr. Northen's work but it is of such importance as to rank with that of Burbank, the plant wizard, and with that of our famous physiologists and nutritional Experts.

"Healthy plants mean healthy people", said he. "We can't raise a strong race on a weak soil. Why don't you try mending the deficiencies on your farm and growing more minerals into your crops?"

I did try and I succeeded. I was planting a large acres of celery and under Dr. Northen's direction I fed minerals into certain blocks of the land in varying amounts. When the plants from this soil were mature, I had them analyzed, along with celery from other parts of the State. It was the most careful and comprehensive study of the kind ever made, and it included over 250 separate chemical determinations. I was amazed to learn that my celery had more than twice the mineral content of the best grown elsewhere. Furthermore, It kept much better, with and without refrigeration, proving that the cell structure was sounder.

In 1927, Mr. W. W. Kincaid, a "gentleman farmer" of Niagara Falls, heard an address by Dr. Northen and was so impressed that he began extensive experiments on the mineral feeding of plants and animals. The results he has accomplished are conspicuous. He set himself the task of increasing the iodine in the milk from his dairy herd. He has succeeded in adding both iodine and iron so liberally that one glass of his milk contains all of these minerals that an adult man requires for a day.

Is this significant? Listen to these incredible figures taken from a bulletin of the South Carolina Food Research Commission: "In many sections *three out of five persons* have goiter and a recent estimate states that *30 million people in the United States suffer from it.*"

Foods rich in iodine are of the greatest importance to these sufferers.

Mr. Kincaid took a brown Swiss heifer calf which was dropped in the stockyards, and by raising her on mineralized pasturage and a properly balanced diet made her the third all-time champion of her breed! In one season she gave 21,924 pounds of milk. He raised (8 MODERN MIRACLE MEN) her butterfat production from 410 pounds in 1 year to 1,037 pounds. Results like these are of incalculable importance.

Others besides Mr. Kincaid are following the trail Dr. Northen blazed. Similar experiments with milk have been made in Illinois and nearly every fertilizer company is beginning to urge use of the rare mineral elements. As an example I quote from statements of a subsidiary of one of the leading copper companies:

Many States show a marked reduction in the productive capacity of the soil * * * in many districts amounting to a 25 to 50 percent reduction in the last 50 years * * *. Some areas show a tenfold variation in calcium. Some show a sixtyfold variation in phosphorus * * *. Authorities * * * see soil depletion, barren livestock, increased human death rate due to heart disease, deformities, arthritis, increased dental caries, all due to lack of essential minerals in plant foods.

"It is neither a complicated nor an expensive undertaking to restore our soils to balance and thereby work a real miracle in the control of disease," says Dr. Northen. "As a matter of fact, it's a money-making move for the farmer, and any competent soil chemist can tell him how to proceed.

"First determine by analysis the precise chemistry of any given soil, then correct the deficiencies by putting down enough of the missing elements to restore its balance. The same care should be used as in prescribing for a sick patient, for *proportions are of vital importance*.

"In my early experiments I found it extremely difficult to get the variety of minerals needed in the form in which I wanted to use them but advancement in chemistry, and especially our ever-increasing knowledge of colloidal chemistry, has solved that difficulty. It is now possible, by the use of minerals in colloidal form, to prescribe a cheap and effective system of soil correction which meets this vital need and one, which fits in admirably with nature's plans.

"Soils seriously deficient in minerals cannot produce plant life competent to maintain our needs, and with the continuous cropping and shipping away of those concentrates, the condition becomes worse.

"A famous nutrition authority recently said, 'One sure way to end the American people's susceptibility to infection is to supply through food a balanced ration of iron, copper, and other metals. An organism supplied with a diet adequate to, or preferably in excess of, all mineral requirements may so utilize, these elements as to produce immunity from infection quite beyond anything we are able to produce artificially by our present method of immunization. You can't make up the deficiency by using patent medicine.'

"He's absolutely right. Prevention of disease is easier, more practical, and more economical than cure, but not until foods are standardized on a basis of what they contain instead of what they look like can the dietitian prescribe them with intelligence and with effect.

"There was a time when medical therapy had no standards because the therapeutic elements in drugs had not been definitely determined on a chemical basis. Pharmaceutical houses have changed all that. Food chemistry, on the other hand, has depended almost entirely upon governmental agencies for its research, and in our real knowledge of values we are about where medicine was a century ago.

"Disease preys most surely and most, viciously on the undernourished and unfit plants, animals, and human beings alike, and when the importance of these obscure mineral elements is fully realized the (MODERN MIRACLE MEN 9) chemistry of life will have to be rewritten. No man knows his mental or bodily capacity, how well he can feel or how long he can live, for we are all cripples and weaklings. It is a disgrace to science. Happily, that chemistry is being rewritten and we're on our way to better health by returning to the soil the things we have stolen from it.

"The public can help; it can hasten the change. How? By demanding quality in its food. By insisting that our doctors and our health departments establish scientific standards of nutritional value.

"The growers will quickly respond. They can put back those minerals almost overnight, and by doing so they can actually make money through bigger and better crops.

"It is simpler to cure sick soils than sick people - which shall we choose?"

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