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MILK DIET

AS A REMEDY

For Chronic Disease

BY

CHARLES SANFORD PORTER, M. D.

SIXTH EDITION

BURNETT P. O., CALIFORNIA
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TABLE OF CONTENTS

PAGE

PREFACE 8

SYNOPSIS 14

INTRODUCTION 15

History of Milk Cure—Skimmed and Unskimmed Milk—Opinions of Noted Physicians—Wrong Methods of Using Milk—Thousands of Cases Treated in 32 Years—Kind of Milk Important—Patients Must Study Book—Earnest Effort to Make Book Practical.

CHAPTER I. PRELIMINARY ARRANGEMENTS .. 25

Explicit Directions—Arrangements made Beforehand so Nothing will Interfere with Treatment—The Room—The Bed—Need of Large Supply of Air—Changing Sleeping Garments—Graduated Milk Glass—Striking Clock—Visitors—Water Heaters—Bath Tub—No Danger Taking Cold on Milk Diet—Kind of Milk—Holstein—Jersey—Preserving Milk—Cream—Fresh Milk Best.

CHAPTER II. STARTING THE TREATMENT..... 42

Success Depends on Faithful Following of Directions—Fasting—Fruits Allowed—Injury from too Long Fast—Weighing—Measurements—Amount of Milk Taken—Danger of Taking too Little Milk—Of Taking too Much—Interval Between Drinks—Method of Drinking—Sleep—Digestion of Milk—Formation of Heavy Curds—Heating Milk—Milk for Weak Stomach—Night Drinking—Disagreeable Symptoms—Prepara-

333604

PAGE

tion of Bath—Care Required in Regulating Temperature of Water—Bathing During Menstruation—Time Required to Take Milk Cure—Length of Time Milk Diet can be Followed—Work on Exclusive Milk Diet—Ella Wheeler Wilcox's Opinion—Disorders Cured in Four Weeks' Course—Crises while on a Milk Diet.

CHAPTER III. REACTIONS DURING TREATMENT 73

Changes in Circulation of Blood—Quick Return of Blood Pressure and Pulse Rate to Normal—Record of Cases—Effect on Heart, Lungs, Kidneys, Muscles, Skin, Hair, Defecation, Urination—Natural Tendency of System to Throw off Disease—Stimulation of Milk Diet—Need of Rest while Taking Cure—Rapid Growth of Muscles while Resting—Development of Digestive Organs — Anemia — Diarrhea — Dropsy — Goiter—Sweating—Gain in Weight—Loss in Weight —How to Discontinue the Milk Diet.

CHAPTER IV. DYSPEPSIA 106

Easily Cured on Milk Diet—Varying Effect of Diet on Different Patients—People who Dislike Milk—Removing Odor from Milk—Hunger—Thirst—Craving for Sour Things—Amount of Sleep—Defective Breathing—Oxygen Really a Food—Making it too Easy for the Stomach — Worthless Manufactured Cereal Foods — Cause of Starchy Indigestion — Pancreatic Secretion.

CHAPTER V. CONSTIPATION 122

Common Trouble—Due to Ignorance or Neglect—Study of Parts Involved—Peristalsis—Hemorrhoids

TABLE OF CONTENTS

PAGE

—Laxative Foods—Some People Worry too Much over Constipation — Use of Enemas — Massage — Proper Exercises—Effect of Milk Diet on Constipation—How to Prevent Constipation on Milk Diet—Buttermilk—Cottage Cheese—Medicines—Oils—Seaweed—Dilators—Color of Stools—Percentage and Permanency of Cures.

CHAPTER VI. CONSUMPTION 149

Gain in Weight—Improvement in Blood—Changes in Lungs — Coughing Crises — Importance of Air — Climate—Danger of Crowded Places—Danger of Hemorrhage.

CHAPTER VII. CATARRH AND ASTHMA..... 156

Varieties—Curable Cases—Incurables.

CHAPTER VIII. AUTO-INTOXICATION 160

More Common Every Year—Cause—Symptoms—Large Portion of Digestive Tract becomes Poison Factory—Disease only Affects Man—Catharsis—Milk Diet Has Cured Hundreds—Sour Milk as a Remedy—Bulgarian Bacilli—Useful Books on Subject.

CHAPTER IX. RHEUMATISM 169

Easily and Permanently Cured—Why Treatment Not Used More—Crises—Elimination of Rheumatic Poison Slow but Sure, and Impossible to Make More on Milk Diet—Common Cause for Rheumatism, Gout, Bright's Disease, Bronchitis, Asthma, etc.

CHAPTER X. VARIOUS DISEASES..... 177

Not Practical to Use this Treatment in Acute Diseases—Mental Disorders—Dislike of Milk Immaterial

PAGE

to Treatment—Dilated Stomach—Chronic Diarrhea—Sprue — Kidney Disease — Floating Kidney — Heart Disease—Anemia—Dropsy—Bladder Disease—Stone in Bladder—Fibroid Tumors—Painful Menstruation—Improvement to Generative Organs—Diabetes—Cancer—Pellagra Cured—Addison's Disease—Hodgkin's Disease — Thyroid Gland — Locomotor Ataxia — Paralysis Agitans.

CHAPTER XI. HIGH BLOOD PRESSURE..... 195

No Failures if Treatment Correctly Taken—Record of Cases Treated—Tobacco Harmful—Cause of High Pressure—Relation to Life Insurance.

CHAPTER XII. PSYCHOLOGY OF MILK CURE.. 213

No Suggestion or Faith Cure about this Treatment —Elaborate Examinations or Apparatus Unnecessary —Better Results in Sanitariums than at Home Usually —Pain—No Danger in Pushing Milk Diet when Combined with Rest—Best not to Make Changes in Regular Plan of Treatment.

CHAPTER XIII. REST 221

Reasons why Necessary—Reading—Talking—No Damage Done by Complete Rest—Energy Stored Up —Relaxation Necessary before Building Up—Warm Bath Helpful in Relaxing—Benefits of Rest on Milk Diet in Nephritis—In Apoplexy.

CHAPTER XIV. EXERCISE 234

Absolutely Necessary after Milk Cure to Continue Benefits—Object of Exercise—Simple Exercises taken Regularly Best.

TABLE OF CONTENTS

PAGE

CHAPTER XV. AFTER TREATMENT 246

Proper Foods—Drinks—Bathing—Clothing—Keep Skin Active—Friction Baths—Reasons Why Some Lose Benefits Gained on Milk Diet—Excessive Reading Prolific Cause of Strain and Nervous Disease—Correct Glasses when Needed—Talking—Drinking Water—Meat Eating—Vegetables—Raw Foods—Machines for Preparing—Eggs—How to Take Milk in Ordinary Life without Causing Constipation—Wheat—Nuts—Sour Milk and Buttermilk—Junket—Monodiet Cures—Grape Cure—Apple Cure—Tomato Cure—Meat Diet.

HEIGHT AND WEIGHT TABLES..... 273

RECORD BLANK 274

MEASUREMENT BLANK 275

INDEX 277

Preface to Third Edition

Since the first publication of this work in 1905, two large editions have been disposed of, and another is required. This is especially gratifying, in view of the fact, that the sale of the book has not been urged, except as one purchaser or patient would recommend it to another.

The succeeding editions have not differed materially, in describing the method of treatment, except in the effort to make the directions more explicit and to provide for certain contingencies.

The fact that I have a large correspondence with people who contemplate taking, or have, or are taking a milk diet in some way, has afforded me every year valuable information as to their needs, and enabled me to emphasize, or make clearer, features which may not have been sufficiently plain for everyone in the earlier editions.

Valuable contributions regarding the treatment are frequently offered me, and, after a thorough test, may be incorporated in the book.

Unless otherwise credited, all the statements made regarding reactions, results and the method of operation of the treatment, are from my own observation.

Orders for the book have come from every part of the United States, from Canada, England, and other foreign countries; translations, in whole, or in part, have also been made into other languages.

I hope the new book will meet with the same favorable unanimity that its predecessors received.

C. S. P.

Burnett, California,
January 31, 1911.

Preface to Fourth Edition

In preparing this edition, a few changes have been made in the text, a chapter added on High Blood Pressure (hard arteries), and more information given about diet after taking the treatment.

I wish particularly to call the attention of physicians to the great benefit and permanent cure of hard arteries and high blood pressure by means of this treatment.

C. S. P.

Burnett, California,
October 1, 1913.

Preface to Fifth Edition

In a little more than a year another edition is required, and I take advantage of this fact to revise the book throughout. Additions have been made to many subjects. The history of the milk cure has been presented more extensively and credit given to early investigators.

A chapter has been added on the subject of auto-intoxication, and the use of sour milks, and the lactic acid bacilli.

Much new information will be found on the treatment of constipation occurring on a milk diet, and also some new facts concerning diabetes.

C. S. P.

Burnett, California,
January 1, 1915.

Preface to Sixth Edition

In this edition I have added new matter throughout wherever required to make the book what I want it to be—a practical working treatise on the subject.

I have quoted authorities on some of the diseases that the milk diet has proved especially beneficial in, to show that their views as to causes, and cures, are not radically different from mine.

The chapter on After Treatment, as revised and enlarged, will be valuable to all, whether they have taken the cure as I recommend, or not.

I hope every patient will study the book, not simply read it.

C. S. P.

Burnett, California,

March 1, 1916.

Disease can only be cured by, and through, the blood, and its circulation in the living parts of the body.

Any means that improves the quality, the quantity, and the movement of the blood, will assist in eliminating disease.

The treatment described in this book makes the purest and richest blood possible, and always increases the amount and rapidity of the circulation, if too low, as in anemic conditions.

In fever, exophthalmic goiter, and toxic conditions generally, with a high pulse, there is always a reduction of the pulse rate, by this method.

Where the blood pressure is too high, it decreases rapidly and permanently.

On the other hand, if the blood pressure is low, it invariably raises slowly to near the normal.

SYNOPSIS

Briefly stated the milk cure consists of the following factors:

First — *Complete rest for all the organs of the body except those concerned in the production and circulation of the blood, and those connected with the elimination of waste and poisonous matter.*

Second — *An ample supply of the only food that will make an immediate large production of blood possible,—milk.*

Third — *An unlimited quantity of pure air to oxidize and cool the blood, and carry off the expired gases.*

Fourth — *Warm water baths, to soften the skin, equalize the circulation, relax tense muscles, regulate the body heat—and, last but not least,*

Fifth — *When the body is ready for it, EXERCISE, to strengthen the muscles, expand the lungs, limber the joints, stimulate the circulation, increase the elimination, purify the blood, develop normal secretions, train the nerves and, generally, to fix and make permanent the benefits acquired while resting and building up the body.*

INTRODUCTION

MILK, and milk products, have been used and highly esteemed as food by all nations possessing mammalian animals since the earliest records of history. At the present time some of the older European countries are consuming two or three times as much milk and cheese per capita, as the United States does.

A good food is a good remedy, and, as disease is only a disturbance of the mechanism of nutrition, it is only natural that the use of milk in ill health should be almost as old as its use as a food in health.

Hippocrates advised consumptives to drink large quantities of asses' milk. Camel's milk, and whey cures were practiced by the Arabian physicians. Homer called the Scythians Galactophagi, or feeders on milk, and Herodotus describes their methods of handling mare's milk.

In recent times the popularization of the milk cure has been largely due to the efforts of Russian and German physicians.

Dr. Inozemtseff, author of a work on "The Milk Cure," published in Moscow, in 1857, treated successfully, with the help of his assistants, over a thousand cases. Dr. G. L. Carrick, physician to the British embassy at St. Petersburg, translated a work "On the Milk Cure," by Philip Karell, M. D., and published an article on the subject in the Edinburgh Medical Journal of August, 1866.

Karell claimed to have treated successfully "hundreds of cases" of all kinds of dropsies, asthma, obstinate neuralgia, diseases of liver, and conditions of faulty nutrition. In all these he considers milk "the best and surest of remedies." Karell does not attempt to decide whether the beneficial influence of milk in certain illnesses is due merely to its nutritive qualities or to some occult medicinal virtue. He simply calls attention to the fact that milk and chyle* resemble each

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*Chyle is the milky fluid contained in the lacteals of the intestine after the digestion of food. It is lymph plus digested food.

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disappearance of the albuminuria under the influence of rest in bed, a few warm baths, and copious libations of milk." He also describes some remarkable cures of inflammation of the bladder by the same treatment.

The only apparent difference between the milk cures of these two physicians was that Dr. Johnson recommends unskimmed or whole milk, while Donkin prefers skimmed milk. Dr. Donkin makes this interesting statement: "Constipation is a sure sign that the treatment is agreeing with the patient, whereas diarrhea is a very untoward indication and extremely more apt to be induced by unskimmed than by skimmed milk." He claims that skimmed milk is superior in the treatment of diarrhea of typhoid fever and dysentery, and more powerful in reducing dropsy than whole milk. Donkin also claimed that diabetes could be cured by large quantities of milk, and said that some cases could take as much as fourteen pints per day.

Referring to Dr. Donkin's opinion of diarrhea while on an exclusive milk diet, I will say here

that we do not regard it as unfavorable now, as there are perfect means of control which I treat of fully in another place.

Weir Mitchell, who has had, perhaps, the greatest experience of any American physician with chronic disease, says: "It is difficult to treat any of these cases without a resort at some time more or less to the use of milk."

The use of milk in the diet for nearly all cases of chronic disease, is advised by all the principal textbooks with which I am familiar. The mistake is made by many of them of combining other foods, even meats and eggs, with milk, and consequently, they usually add the proviso "if it agrees." Very few physicians understand the proper amounts of milk to be given, and the proper way to give it in order to assure assimilation. The method of preparing the patient for the milk diet, and his conduct while taking it, had never been published, that I am aware of, previous to the printing of the first edition of this work, in 1905.

My first introduction to the possibilities of an exclusive milk diet was in 1884 while living in

New York City. A friend was cured completely and permanently of a rather serious condition, by following the advice of a gentleman recently from Germany and familiar with the milk cures practiced there at that time. Other mutual friends adopted the same plan for the relief of various ills, and all with good results. Shortly afterward I took the "milk cure," as we understood it then, for a condition bordering on nervous prostration. I not only overcame that condition, but was cured of hay fever, which had claimed me as an annual victim for seven or eight years, but has never since returned.

From that time to the present, I have never ceased to advocate the milk cure, and, of the thousands of cases of chronic disease that have taken the treatment in the manner I recommended, nearly all have been either cured or greatly helped, and less than half a dozen have failed to receive benefit.

Such remarkable results have, of course, resulted in extending the treatment throughout the country. Many physicians, and some sanitariums,

have endeavored to use the method. I regret that many, if not all of these, have made changes in the original plan, which was apparently too simple. Very many times doctors and other patients under my care have advised me to add something to the milk, or to the method of giving it, in order to make the process more mysterious, and more attractive to many people, and more lucrative to myself. They said that people who had suffered for years without relief, traveling to many health resorts, and to noted specialists, taking expensive and elaborate treatments, would not easily be induced to use a method apparently so simple as to be within the reach of almost every person, or household, without expert advice.

While admitting the force of the argument, I have always replied that there was only one way to do the milk cure, and that I would go on to the end advocating that way. For thirty-two years I have watched the results of this way, always willing to add anything of real benefit, that would not interfere with the results we were already getting, always investigating methods of treatment that seemed to have merit, or that made

claims to be able to do more, or even as much as we could, but, with the exception of the preparation of the patient for the milk diet, and the method of finishing the treatment, it remains practically the same as when first introduced to this country.

It is true that my experience has shown me what kind of milk gives the best average results, and what parts of the treatment may be omitted or modified in certain cases, and I may also say that I have spent a great deal of time investigating the why and wherefore, the reason for doing certain things, and not doing others, and the cause of certain symptoms and results that occur during a course of milk diet.

This book is particularly intended for patients taking the treatment,—*and those who are under my personal care, or corresponding with me, must be perfectly familiar with it.* For this reason it is made as brief and simple as possible, but it contains all necessary instructions regarding the treatment. It must be read carefully before beginning the treatment, and again soon after com-

mencing, unless the patient's condition is such that reading is unadvisable, when it should be read to them, if possible.

The book is not large; the size has been kept down so that almost any invalid can hold the book, and read it, without too much physical or mental effort.

Notwithstanding my efforts to keep the work small and compact, each new edition becomes larger than the previous one, on account of the addition of useful information. Educated people read so much stuff not worth remembering, in the shape of newspapers, magazines and books, that they skim over useful matter in the same way, so that I fear many people will lose sight of the essential principles of the treatment as more details are added.

It is necessary to give all the instruction that I can, even though some of it may benefit only one case in a thousand, because the number of patients depending on the book is constantly increasing.

The present edition has taken a long time to prepare, because it had to be written between the

almost constant calls of my daily work, and also because the contents comprise, almost entirely, my personal experience. My library on Milk is as complete as I can make it, but in the scores of books, pamphlets, and periodicals on the subject, there is little to draw on that would be of practical use in this work.

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nothing more satisfactory than a pavilion, partially boarded or latticed up on the sides, with a good water-tight roof, and insect-proof screen over the openings all around. Some of the openings should extend to the roof, or ceiling, and some of them should come down to the floor. It is the lack of these that prevents a room being equal to an outdoor place; no matter how many windows there may be, there is a dead space above the tops of the windows where warm air accumulates, and there is a space between the bottoms of the windows and the floor where the heavy gases, such as carbonic acid, lie more or less stagnant, until stirred up by some breeze of unusual strength or direction. Dust is also deposited in these dead air spaces. Anyone who has not tried living and sleeping in a space open from floor to roof, even on only one side, cannot realize what a constant difference there is between the air in such a place and the air in a room, no matter how well ventilated it may seem to be.

A room is always more or less draughty, with the windows open, while in these outside places the

circulation of air, while thorough, is almost imperceptible, so gently and easily is the change made.

It is the retaining of the gases and other cast-off material from the body in the room that makes indoor life so much more unhealthy, compared with life in the open. The greater warmth, too, indoors, prevents the same degree of oxidation that is possible outdoors. The cooler the air, the better it is, as a rule, and the more oxygen we are able to absorb. There are probably other substances besides simple oxygen, in fresh air, that are necessary to our well-being.

When you have decided upon a suitable location to stay in while taking the milk, arrange for a comfortable bed, preferably one with a hair mattress. A hard bed, or a bumpy one, becomes irksome before the skin has developed the protecting pad of flesh that belongs over the bony points. The head of the bed should be toward the openings where the light and air enter. Do not make the common mistake of putting the feet out in the center space, in a current of air, and the head in

some corner where the circulation is at a minimum. The reverse should be the rule.

Beds with solid headboards or footboards should not be used. Procure an iron bed, or a couch or cot without any headboard. Of all things do not attempt to sleep in a modern folding bed where the head is put in a box-like space, eminently more suited to the destruction of one's health than to its restoration.

The bed clothes should be woolen blankets by preference, with cotton sheets, fastened at the foot, and folding down from the head of the bed, so that the patient can easily turn down a fold or two when less covering is required.

In certain cases where there is much perspiration, or exhalation from the body, it is a wise plan to use a set of bed linen not over twenty-four hours at a time, not necessarily increasing the laundry expense, but putting one change of linen to air while the other set is in use. Remember that it is necessary to stay in bed all the time, except when bathing, or performing other necessary

acts, and that the skin is an important breathing organ, and *must not be surrounded by foul odors.*

The sleeping garments should be changed twice a day, morning and night. I think a gown is preferable to pajamas, because it is very important that there be no constriction around the waist. Garments requiring to be buttoned, or belted, around the waist, interfere with the proper development of the organs contained in the abdomen, and also prevent, to some extent, abdominal breathing.

I am explicit about these directions, because a very rapid growth and development will take place in the organs of the digestive system, the stomach, liver, intestines, pancreas, etc., and this growth is greater in the first week than during any subsequent period. It is during this first week that the success or failure of the milk cure is usually determined, and this growth, or development, MUST not be interfered with.

If possible, the patient should be within easy reach of the toilet and bathroom. There must be no dressing to go outside the room to a toilet.

Have a capacious slopjar in the room and a urinal to use in the bed, especially in cold weather. By having the jar near the bed, the urinal can be used, and emptied into the jar, without getting up, or exposing the person.

A small table, or stand, about two feet high, is required near the head of the bed, to set the milk can and glass on, and for such other small articles as may be required.

A two-quart tin can, or measure, is the most convenient and best receptacle to keep the milk in at the bedside. It is lighter than any pitcher, and unbreakable. Have two napkins to cover the milk can and glass between drinks. Two glasses will be needed, marked in some manner to indicate 5, 6 or 7 ounces of milk. A ring can be scratched around a plain glass with a file at the proper point.

An old established custom in the milk cure is that of using one glass for twenty-four hours, without washing. I still adhere to this plan in my personal practice, unless patients find it disagreeable, or the weather is very warm. In the latter case, it is necessary to serve a clean glass

with nearly every quart of milk, or the residue remaining after drinking will sour the next glassful of milk.

Doubtless many patients could use a clean glass every time they took a drink, and still derive the greatest benefit, but it is possible, if not probable, that certain cases would find it unwise to change their glass oftener than once or twice daily. I hesitate to change methods that have proved efficacious for so many years.

Of the many places which have started up in the last twenty-five years with the intention of giving an "improved" milk diet treatment, I do not know of any now in existence, except two or three recent ones.

A clock must be located where it can easily be seen from the bed. Clocks striking the hours and half hours are a great aid in calling the patient's attention to drinking time. Good clocks of this description can be purchased from two dollars up.

Outside of the necessary articles mentioned, the less furniture there is the better it will be. Chairs for visitors are not particularly required, for there should be no visitors. If absolutely necessary,

visits may be tolerated, but never for longer than half an hour at a time.

A daily warm water bath will be required and the arrangement of the bathing facilities is one of the things that requires careful attention. It is necessary for the patient to enter the tub while the water is somewhat cooler than the body, and then gradually warm the bath to the body temperature, or to such a temperature as will be entirely comfortable. This necessitates a reserve supply of hot water, which may be drawn on at intervals during the bath, as the water cools off.

The ordinary thirty-gallon reservoir, used in connection with a range in most households, is not often satisfactory, because drawing the necessary amount of hot water to prepare the bath leaves no surplus, and it is most annoying to open the hot water faucet and get cold water.

However, if the tank is full of hot water, and the fire in the stove is kept going, it may work all right, but there *must* be hot water up to the end of the bath. The instantaneous gas heaters, if properly arranged, are satisfactory. If the heater

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some people have of shutting the bathroom up tightly while bathing.

The tub itself is a matter of considerable importance. I have not yet seen a modern white enameled iron tub that seemed as satisfactory as the old copper tubs, chiefly on account of the shape. The iron tubs are moulded somewhat like a huge box, with flat bottom and vertical sides. Even the head of the tub where the bather's head and shoulders rest, goes almost straight down, whereas the old style had a gentle slope about two and a half feet long, making a comfortable support for the upper part of the trunk and head. The copper tubs had a rounding bottom which fitted the body better, and did not require so much water to cover one, and the metal itself being thin, was rapidly warmed by the hot water, while the thick iron tubs now used require the expenditure of considerable heat simply to warm up the tub. The iron tubs stand up so high as to be difficult for a weak person to enter, and serious accidents have occurred on account of the bather slipping as he left the tub. Another objection is the location of

the overflow so near the bottom that the tub will only hold a few inches of water. This latter fault may sometimes be remedied by unscrewing the fixture and covering the outlet with a thin rubber sheet, or filling it up with putty. Sometimes the overflow may be stopped by simply putting a piece of paper over it, when the force of the water will hold the paper tight against it. The tub ought to be deep enough and long enough to hold sufficient water to cover the shoulders when the patient is extended at full length, and for this purpose a six foot tub is usually necessary. A five and a half foot, or even five foot tub may be used by short people, or ladies, but the six foot is best. A canvas head rest may be used, if necessary, or a rubber cushion, or hot water bag full of air, to rest the head on. The trouble with most ladies is that they object to wetting the hair, while men as a rule, enjoy lying in the tub with the water up to their mouths, and it is best that they should do this.

The patient should have a bathrobe to wear in going from the sleeping room to the bathroom,

and a pair of easy slippers. Felt slippers are the best, as they do not require stockings, and are warm and comfortable. Hundreds of times I have seen patients, after taking a warm bath, leave the bathroom with only bathrobes and slippers on, go outdoors to their beds, in all kinds of weather, and I never knew any of them to "take cold."

In regard to milk, a few necessary general rules will be given here. What is required is good, clean milk as it comes from the cow, without the removal or addition of any substance whatsoever. Boiled, sterilized or pasteurized milk, or milk artificially preserved in any way, cannot be used for this treatment.

In well-managed modern dairies the handling of milk is so systematized that there is no particular trouble in keeping the milk sweet until used. Dairies that are not cleanly, or have not proper appliances, often use some means of preserving the milk, by stopping the activity of the acid-forming bacteria. These bacteria are not dangerous to health, and the methods of restraining or destroying them are without effect on the

bacteria of consumption, typhoid, or other fevers that might contaminate milk in certain places. Prolonged boiling will destroy any germ, but boiled milk alone will not sustain life in either the infant or the adult. Pasteurizing milk or heating to 150 F., or less, can have no effect on the pathogenic bacteria and renders it unsuitable for human use. Dogs fed on pasteurized milk only, are liable to have the mange and other disorders, while others of the same litter thrive on sweet and sour milk.

There are several chemical preservatives sold to dairymen by manufacturers who claim they are harmless. They are prohibited by the laws of most states. Some of them containing borax are not exactly poisonous in the amount one would ordinarily get in milk; but they render the milk much less digestible and in a weak baby or invalid adult might readily be the contributing cause of death. Others, like salicylic acid, or formaldehyde or formalin, are distinct poisons. There is no harmless preservative of milk; whatever prevents its decomposition will render it more or less indigestible.

The manner in which milk is handled makes a great difference in its keeping qualities. Milk which is cooled and aerated immediately after being drawn, will keep for days; while, on the other hand, milk which is left to stand with the animal heat in it, will often be stale within twelve hours, and sour in less than twenty-four hours.

Milk from Holstein cows is the best for the purpose, next that from Durhams or Shorthorns, and last that of the pure Jersey and Guernsey, or Alderneys, as the two latter breeds were formerly called. Milk from Jersey cows may be used, but it should be skimmed after standing two to four hours to reduce the amount of cream.

So important is this question of the kind of milk to be used in this treatment that I quote from an article by Professor J. Allen Gilbert, printed in the New York Medical Record, October 27th, 1906, on "Choice of Cow's Milk." The italics are mine:

"Holstein milk is characterized by fat globules of small and uniform size, separating slowly by the gravity method, churning slowly, and carrying very little color. Set side by side with milk of no richer quality but of larger fat globules, in a given time

less depth of cream will rise. Holstein milk coagulates the most slowly of any, and on account of its small globules and their evenness in size it has a decided advantage in ease of absorption.

"This breed can be traced back for two thousand years and was always famous for dairy purposes. In temperament these animals are quiet and docile, bulls as well as cows, the bulls exceptionally so. Instead of being held at bay with a long stick hooked in the nose-ring, they can usually be led out for exhibition at the end of a loose rope. Their robustness makes them specially resistant to disease, whereas the more delicate breeds, such as the Jersey, have sad tales to record from the ravages of such diseases as tuberculosis.

"All in all, if one were choosing a human wet nurse he would look for just the characteristics in her that we find presented in a Holstein cow, viz., vigorous constitution, quiet, easy-going temperament, uninfluenced by external disturbances, good glandular development, abundance of good milk, freedom from disease or tendency to disease, a good healthy child of her own, and good family history.

"Whether we are to grant any such thing as a vitality peculiar to a milk or not is a disputed question. However, Professor Carlyle of the Wisconsin Experiment Station is quoted as saying that the Physicians' and Surgeons' Association of Chicago recommends the milk of a certain Holstein dairyman receiving 12 cents a quart because of some reason not understood it has more vitalizing power than any other milk they can get.

"Those buying milk by the quart, sold at a uniform price for all breeds, will receive more commercial value by purchasing Jersey milk, for in so doing they get a milk with a higher percentage of solids. *Where good digestion, adults eating a mixed diet, and highest commercial value per quart are the only elements to be dealt with in choice of a milk, the Jersey is undoubtedly the*

preferable milk. Where infants, weak digestion, and large quantity of milk are at stake, the Holstein leads the list and the Jersey becomes the least desirable for numerous reasons.

"It is a well-known fact that certain Jersey cows give milk so rich in fat that they cannot suckle their own young. It is at least to be suspected that the trouble is not so much in the "richness" of the milk as in the size of the fat globules. The smaller the globules of fat, the more permanent the emulsion, and also the less irritation to the gastrointestinal tract. Also, the finer the emulsion, the easier the process of digestion and assimilation.

"The ingredient of our food which costs the most, which has the greatest physiological value, and which is most apt to be lacking in ordinary dietaries is protein. Skim milk has nearly all the protein of the whole milk. By the removal of the fat in the cream it loses half its fuel value, but practically none of the protein. *What is left has all the value of the whole milk for building and repair of tissue, for the making of blood, muscle and bone, and half the value of the whole milk for supplying heat and muscular power.* When the facts are fully understood, skim milk will doubtless be more wisely utilized.

"The average composition of buttermilk, which is practically sour skim milk, is quite similar to that of skim milk, though it contains slightly less protein and sugar and a very little more fat. The fuel value is about the same, about 165 calories per pint. An ordinary glass of buttermilk contains as much nourishment as a half pint of oysters or 2 ounces of bread, or a good-sized potato."

Many people anxious to gain weight think they should take all the cream possible. This is a mistake, as the fat in the milk does not normally make flesh in the body. The flesh built up on a milk

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CHAPTER II.

STARTING THE TREATMENT

IN SEVERE cases of illness, the success of the milk cure depends on the faithfulness with which the details are followed. Some of these details often seem unimportant to those who know little of the treatment, but, in any case, where a successful result has not been obtained, it has always been easy to point to faults of commission or omission.

It is true that many people have derived great benefit from a milk diet taken otherwise than as I advise, or only partially following my instructions, but I believe that the plan I give herein is one that is always successful, enabling the patient to take the proper amount of milk, and secure the desired results, without any danger.

Before commencing the milk diet, it is usually advisable, and often necessary, to take a fast from ordinary foods.

For the ordinary case, where the digestion is more or less impaired, and particularly where constipation is present, the fast should continue at least thirty-six hours, but the patient is allowed to eat ripe fresh and dried fruits (except bananas) in such quantities as may be eaten with a relish, and as much water may be taken as possible with comfort. Diabetics should fast for five days, not even eating fruit.

While I have often started patients on milk only five or six hours after their last meal, sometimes I have regretted it and thought that a day's fast would have saved time. If there is a class of patients who can do without the fast, it is the thin, weak, anemic people, such as consumptives, neurasthenics, etc., especially those whose bowels are in the habit of moving freely every day. Such patients take milk greedily; they soak it up like a sponge, there is no initial constipation nor nausea, and the rapid increase in circulation causes a quick elimination of the impurities in the blood and bowels.

On the other hand, those who are stout, plethoric, rheumatic, gouty, dropsical, constipated,

or who have had skin or blood disease, diabetes, headaches, coated tongue, prolapsed or dilated stomach, or any displaced organ, should take at least one day's fast, and many people will be benefited, and gain time in the end, by extending the fast over several days.

Those who are not accustomed to fasting periods are usually agreeably surprised to find there is no particular inconvenience to this part of the program, and when the time comes to start in drinking milk, it goes down with a relish; the stomach makes no objection, and the bowels move naturally. Another important consideration is the fact that the organs of digestion are, so to speak, caught at low tide, at their minimum bulk and activity, and building up rapidly in size and function, as they do on the milk diet, while the mind and body are in a state of as complete rest as possible, there is a natural tendency to make good cells, good tissues, and healthy organs, and to overcome any abnormal habit or loss of natural function that may have been contracted by any organ.

During the fast it is not necessary to take rest, or refrain from the usual work or habits; in fact I think most patients are benefited by active exercise the day before commencing the milk.

A few months ago I received a letter from a young lady magazine writer, who had taken a course of milk diet, after a fifteen days fast. She wished me to tell her of some way to prevent "decay of the teeth," while on the milk diet. She claimed that cavities had formed in the teeth, not only in her own case, but also in the cases of a well known author, and his family, who had all taken the milk diet, after excessively long fasts.

I was glad to be able to inform the lady that whatever deterioration of the teeth she had experienced, was entirely due to the fasting period, and not in the slightest degree to a milk diet. Some of her friends had fasted several weeks, until they were extremely emaciated, and, I believe, they had taken the milk rather irregularly, and usually started on only three or four quarts per day.

In all my experience I never knew of anyone suffering the slightest damage to their teeth, during, or soon after, taking a milk diet. In my own case, my teeth were in bad shape before I took the treatment, and I had had a great deal of dental work done, but for twenty years afterward no dentist saw the inside of my mouth, as it was unnecessary. Several experienced dentists who have taken the milk cure fully agree with me in the belief that it is a great benefit to the teeth, either in young or old people, and that it can cure Riggs disease, or pyorrhea.

Milk has all the elements necessary to build teeth with, and, in fact, it is on an exclusive milk diet that babies grow teeth more rapidly, and more perfectly, than they ever do afterward, on any diet.

Speaking of these long fasts, two, three and even four or five weeks long, I must say that I never saw any case that showed permanent benefit from them, and I certainly have seen a number of people who had hopelessly wrecked their health and even their minds by this unnatural starvation.

Indeed, the mental condition of some of these patients who came from "fasting sanitariums," was pitifully weak. Perhaps this condition was present before they fasted, and possibly it was owing to this fact that they were induced to continue the fast so long.

In beginning the diet, take the weight in the morning, with as little clothing on as possible. Make a list of what you wear, and at the end of the week, wearing the same outfit, weigh at the same hour of the day. More exact results are secured by emptying the bladder each time before weighing.

Measurements can be taken of the limbs, hips, waist, neck, and especially of the chest, both expanded and contracted, and comparisons made from time to time.

In regard to the amount of milk to be taken, I will make the following statement: The average adult, when consuming daily two to four quarts of milk containing four per cent of butter fat and nine per cent of other solids, will not lose flesh: with another quart or two they will gain

weight, and with a still further increase of a pint or two they will secure the necessary energy and stimulation to throw off disease.

There are several arbitrary rules as to the quantity necessary, such as taking an ounce and a half of milk for each pound of the normal weight or the highest weight in health, or, taking a quart of milk for every foot in height, but none of these will fit all cases. They are, however, a useful guide, especially in estimating the amount to be given children, when the first rule can be safely followed.

The last thousand cases that I have had under observation have averaged about six quarts of milk daily, containing about two per cent of butter fat, and nine per cent of solids not fat. The males usually go over that amount, and the average female patient will take slightly less.

Lord Bacon in his Aphorisms says, "Many persons declare that they cannot take milk as a food, and the reason is that they do not take enough." Dr. Stephen Smith of New York in *Dietetic and Hygienic Gazette*, says his childhood experience

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a safer drink, and probably would do as much good.

There is no half-way method of taking the milk diet for people who have much the matter with them. Enough milk must be taken to create new circulation, new cells, and new tissue growth, and cause prompt elimination of the waste and dead matter that may be poisoning the system.

A patient should start with the full amount of milk; cases that begin on a smaller quantity and try to work up to the proper amount, often fail to get the best results. They get the stomach in the notion of taking three or four quarts, and then find it difficult to increase the amount, while those who start on, say, six quarts daily, have little or no trouble after the first day or two. In beginning in this way we take the stomach by surprise, and as the milk keeps coming, the stomach is compelled to dispose of it, and soon does so, in the natural way, without difficulty. It is rather common for patients to say, the afternoon of the first day, that they feel so full they cannot take another glass, but as they continue taking the

regular quantity, ways and means are provided, and the sensation disappears the same day or that night, and does not return.

On the contrary, if you humor the stomach, and stop when it desires you to, you will likely have to repeat the whole process.

It must be remembered that stomachs of this kind are not normal, and have been out of condition so long that they are not competent judges of what is best for them.

When milk continues to come in and the stomach becomes over-distended, the lower outlet opens and allows some of the contents to pass into the intestine. This is desirable because milk can be perfectly digested in the intestine and the process stimulates and improves intestinal activity. Undoubtedly this action goes on in the case of the suckling babe and assists in rapidly developing its dormant digestive functions.

If other food were taken with the milk this intestinal action would not take place satisfactorily, but with milk alone, digestion and assimilation may go on throughout practically the whole length

of the alimentary canal. The addition of even a cracker to the milk seems to cause the stomach to hold all its contents for hours without discharging much into the intestine. Fruit does not have the same deterrent effect when eaten with milk, but it is not advisable to use fruit during the first few days of the start.

On the morning the milk diet is commenced, the patient remains in bed and takes the first drink as soon as the milk is available, but starting on the even hour, or half hour, and takes the same amount every half hour. The next, and following day's drinking begins as soon as the patient is awake in the morning, using the milk supplied the previous evening. The amount of milk taken in twenty-four hours is calculated from the time the first glass of the new day's supply is taken, until the same time the next morning.

If six quarts is the daily amount, use a glass marked to contain six ounces; if seven quarts is the allowance, take seven ounces in a drink. If five and a half quarts are taken, the glass should hold five and a half ounces, and so on. Using

these amounts there will be thirty-two drinks taken in twenty-four hours. If the first drink is taken at 6 a. m., and none are missed, by 8:30 p. m., thirty drinks will have been taken, two to be taken any time in the night when awake.

This is the only way that such an amount of milk can be absorbed by a weak stomach, and it IS always absorbed, digested, or discharged, where the directions here given are followed.

It is necessary to be exact as to the time and quantity taken. Each glass should be sipped slowly, taking several minutes to finish it. The milk must be mixed with the secretions of the mouth. Do not gulp it, or let it run down the throat, as you might water. Now and then I come across a patient who will take long draughts of milk, say two ounces at a pull, but drawn into the mouth in a rather small stream. They are young people with active salivary glands, and doubtless the action of sucking the milk through a small mouth opening at the same time draws saliva into the mouth. Such patients say the milk tastes better to them taken in that manner than

it does where taken in small swallows and "swished" around in the mouth by the tongue, but the latter is the safest way to start on. A straw, or glass tube, or drinking cup may be used.

Many patients sleep more than half the time. If asleep when drinking time comes, take your glass when you awaken, but do not try to make up for lost time. Continue thirty minutes apart. Milk is supposed to require about one and a half hours for digestion, and all dietetic plans before this have allowed at least that much time between meals. I use the half-hour interval because it gives the best results. Milk is curdled as soon as it arrives in the stomach; the salts and water begin to be absorbed immediately, other portions are passed on to the intestines, where the fat is quickly absorbed by the lacteals. The nitrogenous portions may not be taken up into the blood for twenty-four hours. So it is useless to set any particular time for the digestion of milk or other food. Doubtless a part of the milk will still be in the stomach at the end of thirty minutes, but its mixture with a fresh portion has no bad effect. On the contrary it works well in practice.

A patient, in describing the effect, once said: "After fairly started the first glasses seem to pull the others after them by suction."

If an invalid's stomach is very weak, or particularly deficient in the digestive juices, and especially if the milk is taken too rapidly, tough curds, which are slow and hard to digest, may be formed in the stomach at first. In the vomit of persons who were drinking quantities of milk too quickly, or at too low a temperature, I have seen these cheesy bodies so large and firm that it seemed impossible that they could have come up through the oesophagus. Where the conditions that I recommend as to rest, bathing, air, and the small frequent and regular drinks of milk have been followed, I have never known of these curds being formed in such amounts as to prevent their digestion, with the exception of a few very weak people who were attempting to take their milk cold, or at the temperature of the room.

It would be a sad mistake if we were to give up the idea of a milk diet because of a few curds in the stomach at first. It is also a mistake to

peptonize the milk, or to add anything to it, to make it easier to digest. Let the fact be recognized that the fault is with the stomach and not with the milk. It is purely a functional fault and must be corrected, and, when the stomach is able to handle the milk right, it will also be able to digest ordinary foods as well.

There is seldom any difficulty in taking the milk after the first day or two if the start is made under proper conditions, and, after that, all that is necessary is to continue building up the digestive organs and the system generally by three or four weeks of this plan of treatment.

I usually start patients on milk which is near the room temperature, or at least not below 60 degrees F., but if there are symptoms within the first two or three days of indigestion, distress in stomach, nausea, or vomiting of thick curds, the patient goes on warm milk immediately and does not take any cold milk for two or three weeks.

In cold weather, if any trouble of this kind is anticipated, it is better to start on warm milk at the beginning, but in nineteen cases out of twenty,

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Do not let these patients take a glass of cold milk early in the morning, as it might affect them all day.

It is not practicable to use thermos or vacuum bottles to keep warm milk in all night because the milk would spoil, but a bottle of hot water, or several of them, can be arranged for the night, and a glass of milk warmed at any time by emptying the hot water into a small pan, and setting the glass in it.

The secretions of the mouth may have no digestive action on milk, as there is no starch in the latter, but the mechanical effect of the addition of the fluids is important. Outside of the milk cure, some weak stomachs can take milk diluted with water, and assimilate it, where straight milk disagrees. Infants are usually given milk largely diluted with water, but a healthy infant can generally take pure milk without trouble. In any case the water should be gradually reduced and omitted as soon as possible. Skimmed milk is easier for a weak stomach to digest than full milk. Milk from which the cream has been extracted by a

centrifugal separator is better for dietetic purposes than ordinary skim milk, and either is preferable to milk diluted with water.

The taking of at least one or two drinks during the night is a valuable assistance in getting down the necessary quantity of milk. Constipated people should never omit this. It is not necessary to give the stomach a rest while taking the milk cure. It does not need a rest on an exclusive milk diet, any more than a baby's stomach does. Other organs are resting, but the stomach is being built up to a state of maximum efficiency. It is very unwise to omit drinking the milk at a regular time because you don't feel like taking it. If the stomach has been out of order for a long time, there may be a good many disagreeable symptoms, such as bad taste in the mouth, thick coat on the tongue, gas on the stomach, with considerable pain, nausea, and even vomiting, but none of these should prevent the patient taking the regular drinks. The omission of a glass or two, instead of making one feel more comfortable, really has the opposite effect, because the constant, regular

procession of milk through the alimentary canal is interfered with, and it begins to "come back," when, if the milk was kept going down, it would carry the gas down with it into the intestines, where it belongs. The acidity of the stomach is also increased by interrupting the regular drinking. If, in a case of this kind, the milk is stopped for some hours, all disagreeable symptoms cease, and the patient will find he has a better stomach than he had before starting the treatment, but the cure has only been a partial one, and it may be even harder to get over the critical point next time.

It takes a long experience in this work to give one the necessary confidence to tell a patient to continue the treatment under these circumstances, but it is an absolute fact that I have never seen any harm result from sticking to the diet (while resting), and the troubles are only the natural explosions due to the revolution going on in the stomach. If there is any better way to cure an old chronic case of indigestion, with a shriveled up, weakened and almost juiceless stomach, I have never discovered it.

If the patient is lacking in will power, and cannot, or will not, take the regular amount of milk each time, it is a great deal better to take half a glass than none, and resume the full amount at the earliest possible opportunity.

Fortunately, there are very few people who have such a hard time on the milk diet, and they are most all elderly people who have been in ill-health for many years. But even in this class of cases, less than two per cent have failed to carry on the treatment to a satisfactory result.

The patient must have a warm bath daily, and it is usually taken in the forenoon. When there is any tendency to insomnia the bath can be given in the evening and usually has a good effect in overcoming that trouble. The first bath should last only fifteen or twenty minutes, increasing the time about fifteen minutes every day until the patient is staying in the water at least one hour. Use no soap in the bath.

These three items in regard to the temperature of the bath water must be remembered:

Start slightly below body temperature,
Increase to the body temperature,
Finish almost hot (but never hot enough to cause dizziness).

The bath should be prepared with a temperature of 94 or 95 F., and, as soon as the bather becomes accustomed to this sudden change from the air temperature, he should gradually add hot water until he feels perfectly comfortable, neither hot nor cold. The thermometer will then indicate about 98 or 99, although people differ several degrees in their sensations. The temperature must be kept at this point until nearly ready to leave the bath; then enough hot water should be added to produce a thoroughly warm feeling throughout the body.

In very hot weather I have found it wise to reduce the temperature of the bath at the start a few degrees—to abstract heat from the body instead of adding it. The principle to be followed is to keep the patient entirely comfortable, and if, for any reason, he is not comfortable, *he should get out of the bath.*

Having the water too hot on entering will cause a slight attack of indigestion, in the same way that a hot bath affects one when taken too soon after a full meal, because the blood is drawn to the skin, and away from the internal organs.

The bathroom must be ventilated in every way possible, and the milk taken at the regular time while bathing.

Ladies who object to wetting the hair can wear rubber bathing caps, but it is better to do without them. The circulation of the blood in the scalp is so much greater than usual that the warm skin dries the head rapidly and there is no discomfort where the hair does not have to be "put up" immediately. With very serious cases it is better to cut the hair to a convenient length; it grows rapidly and will be much stronger. In any case the hair ceases to fall out, for it responds quickly to the general condition of the body.

Regarding bathing by females during the menstrual period, I will say that I have never known of any harmful result from the practice, but if

ladies prefer, the baths may be omitted for a few days at this time.

The following item in this connection is from *The Nursing Times*:

A cold bath or sea-bathing will sometimes cause the suppression of the menses, but this does not apply to the ordinary warm bath which so many women quite erroneously consider should not be taken during the progress of a menstrual period. There is not the slightest justification for depriving oneself of this source of comfort and cleanliness. It can do no possible harm.—*Nursing Times*.

One need not be afraid of putting the ears under water. If the eardrum is perforated the ear can be plugged temporarily with cotton. I have seen deafness unexpectedly cured by the combined diet and bathing while undergoing treatment for other diseases.

The proper way to take the bath is to have enough water to submerge all the body except the face and lie at perfect ease *with all muscles relaxed* and the shoulders supported by the sloping head of the tub, or some contrivance such as a water bag, air cushion or canvas strap. Do not keep the head bent forward at an unnatural angle to keep it out of the water.

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cases patients may continue using milk as a diet, if their circumstances permit, after resuming their occupations, or ordinary habits. I have letters from different people who state that they have lived on milk for long periods, often several years, in one case twenty-one years. All these persons began the use of milk for some serious ailment, and yet every one of them seems to be in a state of vigorous health and vitality now. The case of Dr. Herman Schwartz, an Austrian physician, who has lived on milk exclusively for twenty-three years, is interesting, as from all accounts he is in the best of health and strength. He is said to take three gallons daily. One of the best public speakers on the Pacific Coast has lived wholly on milk for four years.

I have just received (1913) the following letter from Mr. W. F. Kitzele, of North Third Street, Burlington, Iowa: "I have lived on a strictly milk diet for the past forty-two years, not as a matter of choice, but from the fact that I am unable to take solid food of any kind, even a crumb of bread.

"At the age of two years I took a dose of concentrated lye, which caused a stricture of the food pipe and since then have lived on a milk diet, and I believe have gotten along better than the man who eats. I am five feet, six inches tall, weigh one hundred and forty pounds, and am married and have four strong, healthy children. I take one quart at each meal time and none between meals. My health is good, in fact I have never been ill in bed in forty-two years."

If milk can be taken often enough one can endure more cold than on any other diet. I have lived in the open air in winter with patients where we had to thaw the milk before we could use it. You can get more energy and heat out of a quart of milk than an Eskimo can out of a pound of blubber.

I can state here as a positive fact that an immense amount of physical or mental labor may be done on a milk diet. A young friend of mine lived on about five quarts of milk per day during two terms of college just before graduation and won second honors in a class of over three hun-

dred, and finished in fine physical condition. His board cost him about $10 per month.

Professor Weir Mitchell in "Fat and Blood," page 125, says: "I have seen several times active men, even laboring men, live for long periods on milk, with no loss of weight; but large quantities have to be used—two and a half to three gallons daily. A gentleman, a diabetic, was under my observation for fifteen years, during the whole of which time he took no other food but milk and carried on a large and prosperous business. Milk may, therefore, be safely asserted to be a sufficient food in itself, even for an adult, if only enough of it be taken."

The gifted writer, Mrs. Ella Wheeler Wilcox, says: "I believe in the milk diet, because I have taken it with results so marvelous, and so beneficial, that all Mr. Rockefeller's money could not repay me, were I deprived of the knowledge that I gained by the experience. A man of my acquaintance who destroyed his digestion by years of wrong habits, has lived for the last five years in perfect health and strength on milk alone. He

is able to work more hours with less fatigue, than any of his acquaintances. 'He possesses a marvelous complexion and is never ill.

"Another friend who had been a hopeless invalid for ten years, through complications of diseases, has lived on milk for three years, and finds herself perfectly well unless she attempts to return to solid foods. A dozen skilled physicians failed to give her even three days of health, until she gave up foods for milk. Seventeen other personal friends restored their health, and the ability to digest a natural, varied diet, by taking the milk treatment for a few weeks."

Where it is the intention of patients to keep on with the milk diet for very long after stopping the rest cure, it is advisable for them to take larger doses, at less frequent intervals. Some patients who had been a long time on a half-hour schedule, with a corresponding amount of milk, have said that they found it difficult to eat enough food at one time to last them until the next meal. There is usually no difficulty in taking twice the regular quantity of milk every hour instead of half as

much every half hour. This gives more time between drinks for exercise, or business affairs, and, I think, it tends to fit the stomach better for the distension of a regular meal, when ordinary diet is resumed.

Business men often carry a handbag full of Mason pint fruit jars, containing milk, and drink one of these at convenient times. Quite a number of old patients have been able to drink a quart of milk at one sitting.

But these experiments must not be tried until the stomach is taking the small and frequent doses without any discomfort, and the bowels are moving regularly. If the stomach is not handling easily the smaller drinks, it will be of no use to attempt the larger ones.

A course of four weeks should ordinarily be sufficient to cure any of the following diseases:

Nervous prostration, general debility, auto-intoxication, mild skin troubles such as pimples, eczema, sallowness, wrinkles, etc., simple anemia, catarrh, biliousness, ringing in the ears, pleurisy, constipation, dyspepsia, indigestion, asthma, hay

fever, piles, insomnia, ulcer of the stomach, colitis, or ulceration of bowels, goiter, malaria, arterio sclerosis (hard arteries), neuralgia, neurasthenia, tobacco, morphine and cocaine habits, gallstones and liver disorders, rheumatism, kidney disease, and the first stage of consumption.

In colitis, if the condition of the stools does not indicate that the bowels are perfectly healed at the end of four weeks, the diet and rest should be continued longer, but the amount of milk taken may be decreased about one-third, and buttermilk may be substituted for some of the sweet milk, if it agrees.

In more advanced cases of consumption or other chronic organic diseases the diet can be continued as long as visible improvement is made, or until cured.

It may be well to say here that there are crises that come on in the course of the treatment, due to the revolution that is taking place in the body. None of them is an indication to stop the milk, quite the contrary. The most common used to be an eruption on the skin of the face, body or limbs,

usually coming out during the second or third week. I have seen large pimples and boils, but none that ever left a scar. Since I have been using the Holstein milk exclusively these eruptions do not occur except in patients who have previously been afflicted with them. Rheumatic patients nearly always have some of the customary symptoms or pains in the parts affected, but usually only once.

I wish to speak particularly of crises occurring in special organs that are or have been the seat of disease. You may think there is a recurrence of the disease, but do not have the slightest fear. After the inflammation or excitement has subsided the part is always in a better condition and probably entirely healed for the first time.

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the skin flushed and moist; the capillary circulation under the fingernails, or wherever it may be examined, quick and active. All this takes place with the patient lying as quietly as possible, making no movement unless necessary—conditions under which normally on an ordinary diet, the circulation would be much slower than usual.

No one can deny the benefit of this condition in chronic disease. It is a result sought by every intelligent doctor, knowing that through the circulation only can chronic disease be cured. None of the usual methods of heart stimulation, such as alcohol or other drugs, exercise, massage, hot and cold baths, inhalations of oxygen, solutions injected into the veins, or transfusion of blood can equal the results of the milk diet treatment in effect, in permanency, in total lack of danger. This natural, physiological increase of circulation results from the increased amount of blood, created in the natural way, by the stomach and intestines, acting on an easily assimilated food.

Physicians, investigating the milk cure, say that one of the most striking things about it is

the quick return to a normal condition of the blood pressure, no matter whether it is too high, or too low.

The blood pressure is entirely independent of the pulse rate. A very high, or very low blood pressure may exist with either a slow or a rapid heart.

In anemia, consumption, auto-intoxication and wasting diseases generally, the pressure is away below normal.

Persons subject to apoplexy, Bright's disease, asthma, bronchitis, etc., frequently have a very high blood pressure.

Pressure varies somewhat according to age, registering on the instrument designed for that purpose, less than 100 degrees in children, and gradually increasing, until in the aged it may be over 150 without the health being seriously affected.

In examining the records of the patients for 1915 I was astonished myself to see how every one of them with either a low or high pressure, tended to gravitate up or down, until they struck

about the normal, which is probably around 130 for a middle aged adult. In some of these cases, especially of low pressure, the normal amount was not reached during their four weeks term of treatment, but I think that all of these made farther gains on resuming normal habits of activity and diet.

The records were taken about every seven days, the first or top one showing pressure on starting treatment, and the last one, the record on leaving. The table includes twenty of the unusual pressure cases under my care during the year.

Case No.	**166**	**203**	**204**	**205**	**207**
Start	190	160	94	90	150
1st week	176	140	108	94	134
2d week	159	140	110	100	132
3d week	140	...	110	114	125
4th week	140	140	116	120	125

Number 166 returned for examination one month afterward, and the pressure was 136.

Case No.	**240**	**249**	**251**	**259**	**271**
Start	206	100	102	84	160
1st week	192	140	...	90	154
2d week	172	126	116	100	144
3d week	162	128	116	116	...
4th week	156	130	118	116	132

Case No.	**283**	**292**	**297**	**299**	**301**
Start	80	170	118	90	210
1st week	110	156	120	124	216
2d week	122	140	126	124	160
3d week	...	...	128	128	152
4th week	124	140	128	130	146

Number 301 got a bad start on account of not fasting long enough, and not having his bowels cleaned out, although he had taken a cathartic the day before coming. This was a bad case of kidney, liver and bowel disease.

Case No.	**304**	**307**	**312**	**329**	**336**
Start	160	114	92	100	160
1st week	140	130	116	116	146
2d week	136	...	120	118	140
3d week	134	...	...	120	135
4th week	130	130	122	122	135

There is no dangerous strain on the heart, in this treatment, because the heart itself is the first organ to share in the benefits derived from the better blood circulating through it. Many patients with serious disease of the heart, organic or functional, valvular or nervous disorders, have taken the milk diet and I have never heard of any but good results. There is no reason to expect otherwise with patients having complete rest.

In certain diseased conditions of the body there is an unusually fast pulse.

This is always to be expected in fever of any kind, but there are certain disorders which are accompanied by a very rapid pulse, and yet the temperature remains normal. Exophthalmic goiter (Grave's disease, Basedow's disease) is characterized by so rapid a pulse that it is termed cardiac palpitation, but on the milk diet, resting, the heart slows down gradually but surely, and permanently. The same result follows in patients with fever or toxic conditions of any kind which cause a rapid pulse.

So here again we see a return to the normal, although the condition is apparently the reverse of the slow heart.

It simply shows how a natural remedy will restore the system to health, no matter what the symptoms may be.

In taking the milk diet there is no danger to the kidneys, in spite of their greatly increased work, for invalids with badly diseased kidneys take the milk diet successfully. Some patients, it is true, have slight pains in the kidneys during the first days of their treatment. It is always tempor-

ary, and due, I think, to a rapid growth of the organs, so rapid that the sensitive covering of the kidneys is stretched tightly at first.

About five years ago a physician's wife was brought to me to be strengthened up for an operation on a tubercular kidney. A well known specialist had made the diagnosis and it was supposed the only thing to do was to remove the kidney. She was on the milk and rest treatment not quite four weeks. On re-examination no trace of the disease was apparent. She has never had the operation, and continues in good health; in fact, has since given birth to a healthy baby.

The amount of urine is very much increased by this diet, and no matter what its previous condition, whether highly acid, or loaded with solids or salts in solution, it becomes bland, non-irritating, and almost as clear as water.

The frequency of urination is a little troublesome at first, but in a few days the bladder seems to be able to retain a larger quantity without discomfort; more fluid leaves the body in the perspiration, which is increased by the improved cap-

illary circulation in the skin, and probably the lungs throw off more moisture. However, even then many patients will find it necessary to get up in the night once or twice. It is not advisable to hold the urine very long, as a portion of the water may be absorbed into the system.

It is really wonderful how the various parts of the body accommodate themselves to the great changes which they undergo on the milk diet. It is only possible because the greatly increased blood supply brings with it all the necessary materials to make these changes, and a plentiful supply of nourishment for every cell, of every tissue.

In ill health there is always one or both of two conditions of the blood, viz.:

Insufficient quantity,
Abnormal quality.

Disease is a result of a disturbance of the mechanism of nutrition. There may have been predisposing or exciting causes in the way of bacteria or heredity, bad food, air, or habits, but as the abnormal condition becomes apparent to us,

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The circulation of the blood is nature's agent in eliminating disease, and increasing the quantity and regulating the rapidity of the blood current while improving its quality will assist that elimination.

In a great many maladies, whether caused by errors of diet or not, the digestive or blood-making power is weakened, and to continue the usual food, or to take mixtures of meat, eggs, starchy materials and various drinks, including milk and alcoholic beverages, increases the burden on organs already overtaxed.

If, in addition to the mixed diet, the patient is given medicines for the relief of pain, or for the reduction of temperature, stimulants or sedatives for the heart, cathartics for the bowels or diuretics for the kidneys, expectorants and emetics, hypnotics and narcotics, etc., etc., any one or more of them, the problem for the circulation to solve becomes indeed a complex one, for each and every medicine must act through the blood, whether given by the stomach or through the skin. Even such a simple hygienic measure as bathing, by

bringing the blood to the skin and away from the internal organs, interferes with digestion, if that process is not already completed, or of the most simple character.

The action of the heart, as I have said, is usually accelerated, soon after commencing the milk diet. There is no reaction from this condition. The effect continues with the diet, but after a varying time the heart may slow down a little because it has become strong enough to do the work with fewer pulsations. The arteries continue full. The heart hypertrophies physiologically, just as a woman's heart does in her first pregnancy. I have observed it many times.

In health every organ in the body is hyperemic, or congested with blood, when in active operation, and as the activity increases, so does the blood supply.

There can be no growth, or rebuilding, or regenerating of any portion of the body, without an amount of blood being present in excess of the ordinary tissue-nourishing quantity.

A condition of anemia, or lack of blood, will never be found when the body is successfully overcoming disease.

We hear a great deal in these days of hyperemia as a curative agent, following the ideas of Professor Bier, and using hot air apparatus to cause a local congestion of the diseased parts.

The use of such apparatus indicates that the natural circulation is defective and unable to push the necessary amount of blood into the part.

But in thus interfering with the circulation, how can we be sure that we are improving matters?

Do we know how to force just the proper amount of blood to a diseased part?

Where does the blood come from?

Is not the remainder of the body weakened, or left without protection?

Does not such apparatus bring the blood more to the surface and away from the deeper and perhaps diseased parts?

Why not increase the blood supply naturally all over the body? Why use apparatus to cause a

local congestion when there is a well-known function of the body to attend to just such things, if given the material to work with?

When we suffer an injury to any portion of the body, such as a bruise, a burn, a foreign body needing removal, or the presence of irritating bacteria, or their products, we do not have to wait for the application of any artificial apparatus. The congestion begins at once, through the vaso-motor system, ordered and controlled by the sensory and sympathetic systems of nerves. There is never any mistake about it; *the congestion appears promptly in exactly the right spot and no other.*

Suppose harmful material has gained access to the circulation, be it chemical, bacterial, or simply a loading up with the natural poisons of the body which have failed to be eliminated. Fever results. Fever is only a name for general hyperemia, and hyperemia is absolutely necessary to throw off or neutralize the poison.

If there is enough healthy blood present in the circulation, or if it is manufactured as rapidly as may be required to carry off the poisons, the sys-

tem is able to overcome the danger and restore the normal condition.

New and healthy blood is necessary to perform cures; old blood, stagnant blood, impure blood (from improper foods), no matter how much of it there may be, is ineffective.

In dropsical effusions there is always plenty of blood fluid, but of such a character that the hyperemia set up to repel disease only makes the tissues waterlogged. Place such a case on the milk diet, under proper conditions, and you will find that the dropsy is rapidly cured.

The heart beats vary greatly in number in different persons. I have started several patients on the milk diet whose customary pulse rate was around forty per minute. One lady started with thirty-six, and before the end of the first week showed about seventy-five per minute, while resting in bed and exerting herself as little as possible. From being a chronic invalid, almost bed-ridden, weak, listless, almost bloodless, without appetite, she became a strong, well woman, and has never lapsed to her former condition.

In patients with fever and rapid pulse there is usually a slowing of the heart and nearly always a reduction of the temperature. The effect is chiefly caused by the larger blood current more easily removing the fever products, and by the cooling of the blood through dilation of the cutaneous blood vessels, and by increase of perspiration.

One young lady with goiter, started with a pulse rate of 135 per minute, but it gradually reduced to 80 at the end of the fourth week.

It is very unusual for a patient to have a temperature above the normal while on milk and resting, no matter what the previous condition may have been. If the fever does not stay below 100 soon after the patient's bowels are moving naturally, a serious condition is indicated.

The stimulation of a full milk diet is very similar to the primary effects of alcoholic stimulation on the circulation, but the after results are entirely different, due to the fact that the blood carries with it the food necessary to repair the increased tissue waste.

Stimulation by alcohol is followed by a period of depression which is impossible with milk. Continuous stimulation by alcohol causes inco-ordination of muscles which never follows that of milk. Indeed, the spasmodic, uncertain movements of the hand in writer's cramp may be permanently cured by a proper milk diet.

The effect on the lungs is to quicken the breathing at first; then as the respiratory muscles strengthen, the inhalations become deeper. No matter what disease one may have, the breathing capacity is increased. The circumference of the chest enlarges and the measurement on inspiration increases week by week over that of expiration. The enlargement is too great to be accounted for by increase of muscular tissue or subcutaneous fat around the chest. In fact the capacity of the lungs increases from 25 to 100 cubic inches by actual measurement.

These changes, remember, take place while the patient is resting. The muscles all over the body increase in size.

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But the great majority of patients taking the milk cure are "walking cases." Indeed, many of them demur at the idea of going to bed at first. But go to bed they must to take the milk properly, and, after the preliminary fast, they usually have all the necessary appetite and the right condition of the stomach, to take milk easily, and taking the amount usually given, they are taking more nourishment than the ordinary person takes, even while doing hard work. But milk is, so far as I know, the only food that can be taken in full amount with benefit, while enjoying as perfect rest as may be possible.

The hardness of the muscles, on a milk diet, is due largely to the fact that they are pumped full of blood, like all the other organs of the body.

And, it is well to recall the fact that the internal organs themselves contain a great system of muscles. Not voluntary muscles, it is true, but muscles that are controlled by the wonderful sympathetic system of nerves; muscles which do their work without any effort or knowledge of the will; muscles that work while we sleep. Without them

digestion would be impossible, for every movement of the stomach and intestines and the food products contained in them is due to these muscles.

The whole alimentary canal (oesophagus, stomach and intestines), contains in its wall a double layer of these involuntary muscle fibres part of them circling around the organ, and the remainder distributed lengthwise, and through the combined efforts of the fibers, the contents of the canal are mixed with the various digestive juices, and gradually pushed onward until absorption has taken place, and the residue has been expelled.

This is what takes place in the healthy individual without any consciousness or assistance on his part. But in the invalid these small but important muscles are thin and weak and unable to do their duty. It is not unreasonable to suppose that they build up and resume their normal functions just as do the external muscles, while a person is on a full milk diet. Indeed, although we cannot see these internal muscles develop, we have plenty of evidence that they do, as for instance, the increased size of the abdomen, the larger ca-

pacity for food, the facility with which the unusual amount of fluid and solid matter is handled, and the much larger amount of feces discharged.

This increased power of the intestinal muscles, and the restoration of the peristaltic movement, is all that is necessary, in many cases, to overcome constipation.

All the muscles, as I stated above, increase in size. I have noted an increase in the thigh of over an inch in a week. The abdomen is always first to show an enlargement, then the thighs and buttocks, although at the same time the neck, shoulders, arms and face are making visible progress. The calves do not make a corresponding gain while the patient is resting, but rapidly assume proper proportions on being called on to support the body in walking.

The rapid increase in girth of the abdomen is very significant. It means that the thirty-odd feet of the alimentary canal are being developed. From the condition so often seen at autopsies where persons have died of malnutrition and the intestines are thin and juiceless, perhaps as brown

and almost as dry as the casing from a bologna sausage, they are changing to the thick, juicy and normal condition of an infant's bowels.

The circulation of capillary blood vessels and lymphatics in and around the intestines is greatly increased on a milk diet. The fat of milk is in such minute globules that it is ready for absorption by the lacteals and from them it is carried almost directly into the venous circulation. The large amount of fluid in milk which must pass through the blood before leaving the body, the greatly increased amount of fat, sugar, nitrogenous matters and salts in the right proportion and condition required for nourishment, stimulate the millions of glands lining the canal and they are compelled to increase in size and capacity.

This abdominal increase is very largely in the walls of the stomach and intestines at first. Later on there will be more or less fat deposited subcutaneously. Every healthy person has a protecting pad of fatty tissue in front of the intestines and stomach.

This intestinal development and enlargement is necessary to insure proper digestion and assimilation, but is occasionally objected to by ladies who note the loss of a wasplike waist and the necessity for a new wardrobe with regret. They do not, however, object to the increase in the size and symmetry of the limbs and bust, the filling in of the hollows in the neck, the smoothing out of the facial wrinkles and the "peaches and cream" complexion that go with it.

I am able to offer some comfort by informing them that a portion of the waist development will disappear when they become more active, and another portion will be lost when they quit the milk diet, but with a correct manner of living and sufficient nutritious food the stomach will never return to the previous abnormal condition.

During the last few years, I have noticed an increased number of invalids with disorders of the bowels, principally the colon. These people have usually given a history of "catarrh," or "inflammation of the bowels," often of constipation, and rarely of diarrhea. Some of them say they

are full of acid and rheumatic. In a small percentage of these cases, I notice the amount of milk they can take is limited, because an excess brings on diarrhea. They may take three and one-half quarts of full milk daily, but another pint causes a watery, acid diarrhea. This acid diarrhea is often due to lack of pancreatic secretion.

In the case of a patient commencing the milk diet and taking about six quarts, should diarrhea occur and continue more than thirty-six hours, with passages loose, sour or greenish, or containing small, undigested curds, it is evident that the bowels are unable to digest all the food. The amount, therefore, must be reduced about half until solid movements occur only once or twice daily. Too little will cause constipation, and then the amount must be increased. I have seen cases where a variation in the daily amount taken, of two glasses, would make the difference between constipation and diarrhea.

When the proper dose is found, these patients receive great and lasting benefits. On less than four quarts, the gain in weight is only about half

that of the usual milk diet, and this is rather discouraging to some of them, but in every case of this kind where the quantity of milk has been carefully adjusted to the condition of the bowels, the ultimate result has been very satisfactory.

Several ladies who were below weight and affected in this way only gained about two pounds a week, while on milk, but on returning to ordinary habits and diet, continued to gain at an even greater rate, and remained free from troubles for which they took the milk cure.

In severe cases of diarrhea on the milk where patients can only take two or three quarts in 24 hours, I have found that a few dates, taken one at a time, between drinks, and dissolved in the mouth, enable people to take a pint or two more every day.

A cracker or two may have the same effect, but I do not approve of them because the same permanent cure does not seem to be obtained as on the exclusive milk diet.

In bad cases of chronic dysentery, perhaps due to tubercular infection of the bowels (consump-

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externally and the increased amount of blood internally, the skin always seems to get back to a healthy condition. Patients who had not visibly perspired for years, show a perceptible sweat within a few days, and frequently the skin starts up action suddenly, a short time after the patient has gone to sleep in the evening and he wakes up bathed in perspiration. I have seen such cases where not only the bed linen, but the mattress as well, were so soaked with sweat as to require changing.

Such a climax, weakening and discouraging to some invalids on an ordinary diet, has just the opposite effect on the milk diet, because it is the result of increased capillary circulation, and not due to weakness of the blood vessels and thin, watery blood, as in the ordinary "night-sweats."

One symptom that many patients speak of while on the milk and resting, is cold feet. Not cold enough to be uncomfortable, but quite noticeable, especially as all the remainder of the body is warm and glowing. I have seen it so many times, even in patients who had never had such a thing be-

fore that it seems quite natural to me. The reason is simple:—The feet are hardly used while in bed and there is no need of the circulation of blood rushing there, as it does to the body generally, and also, the blood stops mostly in the abdomen and vital organs, where it has work to do. Cold feet are noticed more in the afternoon than any other time. Never at night, after milk drinking stops. Just as soon as the patient begins exercising the feet become normally warm.

If the warm, moist skin be rubbed, soon after starting on the milk diet, one can often notice little black rolls of dirt, dead cells, and waste matter discharged through the sweat glands, and the odor coming from the skin saturates the atmosphere of the room, and will be found excessively strong on opening the bed to air, especially with rheumatic patients. Indeed, the rooms of these patients smell like a vinegar factory for a few days.

A rapid increase in body weight occurs to every one taking the full milk diet, no matter what their previous condition or disease. While this is us-

ually welcome, there are certain patients who do not desire it, but they have to accept it, at first anyway, because it is almost impossible to take the cure correctly without gaining in weight.

Someone has divided the human race into two classes—those who are too fat, and those who are too thin, and while the milk cure appeals more to the latter class, yet it seems to me that stout people get just as much benefit from it as thin ones, but it is harder to induce them to take it. The gain in weight made by a person who is over-weight or about normal, is not as great as that made by a thin or emaciated person. The latter will take on weight rapidly, almost as a sponge soaks up water. Most of them are poorly nourished, whether they are eating much or little, and the milk alone, taken under proper conditions, seems to be just what they need, and they build up all parts of the body very easily. The average gain in weight is about five pounds the first week, and after that about half a pound daily. This latter rate continues for weeks, or months, until they are near the normal weight. The greater increase for the first week

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There are certain preparations advertised, by the use of which, it is claimed, rapid gain is made in weight, while eating ordinary foods. I have seen very injurious effects from the use of some of these drugs, and I regard such methods as wholly unnatural. The flesh gained is probably largely fat, and the digestive organs, instead of being built up and fitted for normal digestion, are worse off than before taking the medicine.

The gain made on milk diet, while resting, is not principally fat, as some people imagine. An increase of an inch a week in an emaciated person's thigh, between the knee and the hip, cannot be called fat. There is very little fat in this part at any time, but there is an enormous group of muscles and it is the growth of these muscles that produces the enlargement. The muscles increase because they are distended with blood.

The inunction of fat, or so-called flesh foods, or "oil rubs," cannot produce any permanent benefit and may cause considerable harm. The massage may temporarily stimulate the circulation, but it would be better to practice it without the oil.

I recall only a few cases occurring in my experience which lost weight in the first week, while taking the amount of milk I had prescribed.

Two of these suffered from valvular disease of the heart, and after the initial loss went on as usual, gaining weight and health.

Another case had been the subject of severe surgical operations and lost several pounds at first, but then gained at a fairly satisfactory rate.

Two gentlemen suffering from diabetes lost weight on the milk diet (six quarts) for a few days and both quit the treatment, but seemed to have derived some benefit from the short course.

Since writing the above, another advanced case of diabetes tried the exclusive milk diet for a week, and then refused to go on with it as he was losing weight and becoming much weaker. I advised him to use all the buttermilk (preferably that made by means of the Bulgarian lactic acid bacilli) that he could assimilate, and have since heard that he had made a wonderful improvement.

In discontinuing the diet, undoubtedly the best way to resume ordinary food is to stop the drink-

ing of milk at noon and eat a very light supper the first day. A raw, or partly boiled egg, bread and butter, salad or fruit, is enough. The next day start with the milk as early as usual, again stop at noon, and eat a somewhat heartier meal in the evening, if the appetite calls for it. Always have some uncooked foods with your meal; salads, fruits, nuts, cheese, raw eggs served in various ways, olives and olive oil, etc.

A diet of two or three quarts of milk, taken in forenoon and an evening meal can be used as long as desired.

A breakfast of milk, not over a quart, with an apple, and two meals a day, will enable anyone to hold their weight, if proper combinations of foods are made.

Always remember this: Never stuff on ordinary foods. Milk is the only thing that can be used safely for forced feeding, and it must be taken alone, or, in most cases, fruit can also be used.

After taking the milk cure, all patients who previously suffered from dyspepsia, and particu-

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CHAPTER IV.

DYSPEPSIA

PROBABLY the simplest trouble that may be treated by the milk cure is dyspepsia or indigestion.

Usually brought on by an incorrect way of living, when the condition is relieved and the patient instructed how to avoid a return of the disorder, there is no good reason why he should suffer from it again.

When you tell people that they are not eating right, they may say they eat the same as other members of the family who are apparently having no trouble. Now, it is a fact that there are no two people with stomachs just alike. Among thousands of cases who have taken the milk diet under my observation, I do not remember any two who acted, or reacted just the same. With a score of patients taking the milk diet at the same time,

with all conditions as to amount of milk, time and manner of taking just the same; all resting in bed, all bathing daily, everything just the same, as nearly as may be, yet no two will have the same symptoms.

With some the bowels are constipated; others have a diarrhea, some have regular movements. Most people have a chalky white color to the stools at first; some start off with a normal yellow color. Some of those with white stools will suddenly change to a deeper tint, as the liver starts up; others make the change very gradually.

Some patients complain of a bad taste in the mouth; others never have it. Most of them have a heavy coating on the tongue, at first brownish or yellow, later white; others manage to keep their tongues clean. Great variety is observed as to the way the milk tastes. Most patients seem to have a relish for it, in greater or less degree, others declare it is just like taking medicine and they only take it for the effect. Some will say it tastes very sweet, like sugar; others that it has a bitter or sour taste. Precisely the same milk,

mind you. The disagreeable taste may disappear at any time, and perhaps not return.

Many patients taking the cure have said they would never want any more milk after they had finished their course. Doubtless they felt that way while they were "stuffing" it, or taking more than the stomach called for, or wanted, but nevertheless I believe it to be a fact that no patient has permanently lost their liking for milk through taking it as I recommended. After commencing on solid foods, only a short time elapses before they miss the milk, and crave some, if only a glass a day.

It frequently happens that people take the treatment who do not like milk, and in some cases they have not used it, in any way, for many years, forty and fifty years, respectively, in two cases that I recall. With one single exception, all these people have used milk freely afterward and would not like to be without it.

Milk that has been incorrectly handled may have an appreciable odor that is disagreeable to sensitive patients. This odor can be entirely re-

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It is not uncommon for those taking the milk to wish for something sour, and particularly sour fruit, apples, oranges and even lemons. Lemons can be used beneficially by those who suffer from nausea while commencing the milk diet. Others prefer the sweet fruits, peaches, grapes and melons. Nearly everyone relishes dried fruits, like figs, dates, prunes and apricots, and all these are frequently useful in overcoming the initial constipation.

In the matter of sleep patients vary widely; some want to sleep all the time, while others only sleep a few hours at night. Cases of insomnia sometimes notice no improvement for several nights, and then, all at once, they begin to sleep like children.

I have taken considerable space to explain how the milk diet affects different people, while speaking of dyspepsia, because nearly every disease is accompanied by more or less stomach trouble, although the symptoms are quite varied.

Indigestion is almost a national disease with Americans, and in very many cases it is due to

imperfect breathing, or lack of exercise, and over eating.

There is not much use of my wasting the reader's time in giving advice as to the amount of food they should eat, or what kinds they must avoid and what they may eat, and how long they should chew it, and how many meals they should take, because all dyspeptics have had plenty of such advice, without being cured, but I will, later on, give some directions to be followed after putting the stomach in good order by the milk diet.

I firmly believe that defective breathing is more of a cause of dyspepsia than over-feeding. Few people realize how important breathing is to health. We breathe mainly to absorb oxygen. The function of oxygen is to combine with the food we eat, and if sufficient oxygen is not taken into the system to oxidize the food, indigestion results.

Food is taken into the body just as fuel is taken into a furnace, for the same purpose—to be burned up, and burning always means oxidation. A lamp or a stove cannot burn without a plentiful supply

of oxygen, nor can the human body perform its functions more than a minute or two without air.

Oxygen should really be considered a food, for none of the regular foods would be of any use in the body unless they combined with oxygen.

Animal life is an incessant process of combustion; it may almost be said that life is combustion. Oxygen is the great supporter of combustion, although not combustible itself, hence the fires of life burn with increased brightness when oxygen is plentifully supplied. Cold air, if pure, is one of the most powerful aids in eliminating those poisonous substances that are perpetually forming in the human body as the result of the digestive process. Oxygen possesses an affinity for nearly every other element with which it forms compounds, innocuous in themselves or susceptible of easy elimination. The oft-quoted term, "oxygen is life," is not so much a misnomer as some might imagine, in view of the important part it plays in Nature. It is impossible to place too great a value on cold, fresh air. Experience has shown that fifty per cent of patients suffering from various

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long his health fails, he becomes pale-faced, anemic, has less strength, less endurance. His desire for food decreases, and what he does take is not thoroughly digested, hence he has less blood, and that of a poorer quality. Perhaps, realizing that his stomach is not performing its functions properly, he assists it with some digestive medicine, or he takes foods that are recommended to him because they are predigested. In either case he may notice an apparent improvement, but in either case he has further weakened his stomach by usurping its natural functions, and if the primary cause of the trouble is not remedied, his temporary expedients will soon fail to have even an apparent or transient effect.

I want to make this point clear: *We cannot habitually perform for the body any of its functions that should naturally be performed unaided, without weakening the part concerned.*

We cannot use massage or kneading of the bowels for any length of time to produce defecation, without weakening the natural peristaltic

movement of the intestines; nor can we use cathartic medicines long without the same result.

The stomach should digest our food, and we cannot live on predigested foods long, without weakening those glands which normally secrete the digestive juices.

We certainly cannot add pepsin to our food before we eat it, without taking away the function of the peptic glands, and, while they may have been secreting too little pepsin before, they are likely to produce still less when the food comes into the stomach already peptonized.

The simple act of cooking, which is one kind of predigesting, may, in some cases, be a contributary cause of weak digestion. Our digestive apparatus was originally designed to work on uncooked foods, for fire was a later invention, and all animals at the present time, except man, use by preference uncooked foods.

We are too much inclined in the hurry and worry of modern life, to eat those things that may be swallowed and digested quickly, without regard to the ultimate effect on the stomach.

Professor Einhorn says: "The diet in health should not always comprise the most easily digestible substances. For by so doing we weaken our digestive system."

Stomachs can be spoiled by giving them too little to do, and they must be able to digest much that is difficult of digestion, as well as that which is easily digested.

But, aside from the fact that the stomach must be able to take care of such foods as come to it on an ordinary diet, the great question remains, are these predigested foods able to make as good blood as natural foods do?

It is a fact that the great majority of patients applying for relief from digestive troubles are in the habit of using foods designed to save the stomach some of its natural work.

A story I hear very often runs about this way: "Some time ago my health began to fail; my stomach was bad, and the only thing I could eat with comfort was Somebody's breakfast food (or Dr. So-and-So's prepared food, or some grain combination claiming to be predigested and all

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or grains that have already been used in making malt liquors, and selling them for ten times their cost, employ high-salaried advertisement writers, who dilate on the cleanliness and thoroughness with which the goods are handled and cooked, but I do not believe that stuff prepared in this manner can be of much service in the human stomach, and even animals refuse it unless they are very hungry.

I do not include in this class foods like Germea, which is not cooked, nor sterilized by any chemical method, nor the rolled preparations of wheat, oats, and rye. The latter are steamed for some time and while still wet are run between rollers and pressed into thin flakes. After drying the product is ready for marketing. Such rolled grains do not pretend to be more than partly cooked and are supposed to be thoroughly recooked before serving. Grain prepared in this manner does not lose its vitality, or blood-making power. Some grocers raise the objection that such foods do not keep for long periods, like the ready-to-eat, sterilized brands, as they are apt to be attacked by weevils

and other insects. This, in my opinion, is a pretty good test of the food quality of an article. Insects, with their magnified sense of sight, smell, and taste, are better judges of the food value of an article than human beings. As an example, I have known ants to find an opened package of Germea on a pantry shelf, and when discovered, the wise little animals had a line many yards long between the cereal and their nest. Each ant returning to the nest carried a little particle of the food, doubtless for the nourishment of the home colony. An instructive feature of the incident was the fact that the ants, to get at the preferred article, had to climb over several opened packages of other foods, each of which was guaranteed by the manufacturer to be all ready to eat.

Grant's Hygienic Crackers, made in California, are an excellent food for dyspeptics. They consist of a palatable combination of grain, well baked, and are rather hard, requiring some beneficial effort of the jaws, in chewing.

The cause of much indigestion, particularly of starchy foods, is deficient secretion of pancreatic

fluid. Digestion of starchy foods is either performed by the action of the saliva, in the mouth and oesophagus, or after passing through the stomach, by the juice secreted by the pancreas. The stomach itself has no action on starch.

The pancreas is very often at fault in people of sedentary habits, and, if such people do not very thoroughly chew their bread, potatoes, etc., and thereby largely digest the starch before it is swallowed, it passes through the stomach unchanged and is very apt to ferment in the intestine.

Persons with this trouble can often live in comfort on meat, eggs, fruits, buttermilk and non-starchy vegetables, but bread, for them, is by no means the staff of life.

The secretion of a healthy pancreas, which is discharged into the small intestine, amounts to about a pint in twenty-four hours. This amount may be greatly reduced, in ill health, through inactivity of the gland. Total absence of the juice, from disease or removal of the gland, results fatally.

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CHAPTER V.

CONSTIPATION

CONSTIPATION is a very frequent accompaniment of digestive disturbances, and while it is usually only a symptom in itself, and disappears as the trouble which caused it is cured, it deserves separate consideration.

It is my impression that a great deal of constipation, or irregularity of the stools, is due to the fact that many people do not know how to attend to the important function of defecation. They either do not understand it, or they wilfully neglect it.

A little study of the parts involved, and their physiological action will be interesting and instructive.

Food, after passing through the small intestine rather rapidly, enters the colon, or large intestine, as a liquid, or of a liquid consistency. The fluid is largely absorbed during the slower passage

through the large intestine, leaving a residue of feces to be discharged from the rectum.

The large intestine is about five feet long, including the rectum, which comprises the last eight inches. The rectum, like the rest of the intestinal canal, has involuntary muscles in its walls, running both longitudinally and circularly. The circular muscular fibers near the outlet are increased in thickness and form a well defined ring, about one inch wide, called the internal sphincter muscle. Just beyond this, but entirely separate from it, is the external sphincter, of voluntary fibers, which ordinarily keeps the anus closed.

Now notice the different kind of muscles composing the internal and external sphincters. The external sphincter is a sort of purse-string muscle, under control of the will, which keeps the outlet closed except when we wish to discharge the contents of the rectum. The internal sphincter is, like all the rest of the muscular fibers in the intestinal wall, an involuntary muscle, and we cannot directly compel it to open or shut by will power, no matter how much we may desire it.

The contents of the intestinal canal are propelled onward by peristaltic, or worm-like movements, which are entirely involuntary.

These movements are caused by wave-like contractions of the muscles in the walls of the tubes, each part of the tube as the wave reaches it, narrowing its caliber, and then gradually relaxing and dilating. This wave of contraction is gentle, and progresses slowly from above downward. The advancing wave is always preceded by a wave of relaxation, or inhibition. When we inhibit or relax the tension of the muscular fibers in any circular organ, as intestine or blood vessel, the organ naturally dilates and the space in its center becomes larger.

As the contents of the large intestine arrive at the rectum they are composed of undigested and indigestible matter, about seventy-five per cent of water, and considerable waste matter, including cast-off cells, inorganic salts, putrid products, and bacteria. When a sufficient quantity of feces has arrived in the rectum there is felt a need of expelling it. This sensation varies greatly, according to

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good. It has no effect on matter in the lower part of the rectum, as Professor Foster says in his Textbook of Physiology: "A body introduced per anum into the empty rectum is not affected by even forcible contractions of the abdominal walls."

If the peristalic movement is not operating in the rectum, and the internal sphincter is not properly relaxed, we should not try to have a movement. If, under these unfavorable circumstances, after long straining, we do succeed in our object, what happens is about as follows: We have so compressed the abdominal portion of the large intestine that its contents, perhaps unready for the movement, are squeezed downward, while the absorption of the fluid portion is unnaturally hastened, and matter thrown into the blood that should have been further elaborated in the bowel, or discharged with the feces.

Although a passage may sometimes be effected by such unnatural straining, its results, both immediate and remote, are bad. The immediate effect includes the disarrangement of the digestive processes, not only in the large intestine, but in

the small as well, and probably other abdominal organs, in the forcible pushing into the blood and lymphatic circulations of unsuitable substances, causing headaches and auto-intoxication, while the after consequences are that the constipated habit is more firmly fixed, *the next stool almost certainly being dry and hard,* and the natural mechanism of defecation more weakened and less inclined to perform its duty.

Piles; or hemorrhoids, are probably always caused by straining at stool, as the pressure prevents the venous blood returning to the heart and it accumulates in the mucous membrane of the rectum and distends it until tissue gives way and a blood tumor, or pile, results.

The contents of the bowel act in different ways to produce a normal stool. By irritating the mucous membrane, nervous centers are excited which cause a reflex peristaltic movement of the intestinal muscles, and by the secretion, or production of osmotic conditions, which cause fluid to flow into the cavity of the intestine, until it becomes so watery that it may be discharged.

Various laxative foods act directly on the arrival of their undigested portions at the rectum, as the coarse fibers of cereal coverings, small seeds of fruit, or indigestible skins of tomatoes, prunes, etc., or they may act immediately through the circulation, as it is not uncommon for people to have to go to stool within a short time after eating the first peach, or pear of the season, or any fruit that is unusually well relished. And some people say that eating any article which causes a copious flow of saliva will bring on a movement. A small amount of laxative fruit usually acts better than too large a quantity. Some doctors advise the eating of just one fig at bedtime, or one apple before breakfast, knowing that eating a larger amount, or perhaps overeating, seems to have frequently the opposite of a laxative effect. Overeating of any food or foods is a prolific source of constipation.

While constipation is an unsanitary habit, to say the least, it is nevertheless a fact that many people who have it magnify the condition and its dangers. There are many such persons, whose

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people had common sense and will power enough to carry it out, is to have them eat, in moderation, everything they relish, chewing it well, and instead of trying to have a movement of the bowels, try hard *not* to have one. Instead of yielding to the first faint hint that the bowels might move, restrain it, until the next day, or two or three days, if necessary. Retain even the gas, if any is inclined to pass, and, my word for it, there will come a time when an impulse will be felt about which there can be no mistake, and a satisfactory evacuation will result, without straining or forcing into the circulation a lot of stuff which does not belong there. Don't try to force out every particle that you think may be in the rectum, but keep some for next time, so to speak, and the next time will also be easy, and the next time after that, and all the other times. This plan will not suit the manufacturers of expensive machines intended to wash all the food out of the colon, by using large hot-water injections. They may claim that you will get ptomaine poisoning, or auto-intoxication, but such things, in my experience, have usually been caused by bad food, im-

perfectly digested, forced out of the colon into the body against the wishes of the absorptive cells, which could not stand the pressure put on them.

As to the use of injections, I will say here, that occasions may arise when they are temporarily of great use, but as a means of curing constipation, it is irrational to distend the bowel, already weakened and dilated, with large enemas of warm, or hot water, and the most difficult cases to cure are those where the colon and rectum are paralyzed from long use of such measures.

There would be very little constipation with any one, if the internal sphincter relaxed readily and the peristaltic movements were active. When contracted the sphincter acts very much like a valve or gate, opening inwardly, and the more pressure we put on it the tighter it shuts.

Just why it does not open, or relax, when we wish it to, is a difficult question to answer. It cannot be relaxed by simply willing it to as we would relax the muscles of the arm, for it is not a voluntary muscle. Some people, who are always on a nervous tension, put so much extra force on the external sphincter all the time that it gets in a

state of continuous or tonic contraction, and communicates its rigidity to the internal muscle sympathetically. Such people may suddenly decide that it is time to have a movement, and they relax the outer muscle, and attempt, by pressure, to overcome the resistance of the inner muscle. But this is not the right way to go at it.

A better way is outlined above; simply wait until the desire is irresistible; then the inner sphincter is sure to be relaxed and the peristaltic movement sufficient to move the contents out without using abdominal pressure.

Another, and perhaps, opposite method of securing the desired result is to obtain a general relaxation of the body, which will secondarily or sympathetically affect the involuntary muscles. This is explained in another part, under the title of Rest.

A method frequently advised is the use of massage over the abdomen, by manipulation with the hands, or rolling a cannon ball over the location of the colon, or bringing the abdomen forcibly against some object, as a strap between two posts.

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have a considerable influence on the abdominal viscera.

There can be no question about the benefits of exercise to the constipated, *it is a necessity*. Movements particularly useful in these cases will be explained under Exercise. Some directions in regard to diet will be given in the chapter entitled After Treatment.

The reader will note that so far, in treating of constipation, I am speaking of persons in ordinary circumstances, and not those on the milk diet, or resting.

What does the milk diet do for people afflicted with constipation? It is the only perfect and natural cure that I know of.

On no other diet can the bowels be restored to their natural functions, while the patient remains in bed, resting.

On no other possible diet can any one build up the entire muscular system of the body, both voluntary and involuntary, while taking complete rest.

On no other diet is it possible for one to gain healthy flesh rapidly, without exercising, or submitting to massage.

Most people find that drinking fresh milk with other food increases the tendency to constipation. Even when they attempt an exclusive milk diet, using a few pints daily, the trouble is increased. A few people of this class say that milk acts as a laxative to them. The use of buttermilk, sour milk, and sour milk cheese, tends to prevent constipation in nearly every case.

It is impossible to use anything but fresh milk in the milk cure, because that is the only substance that the stomach can take continuously, for unlimited periods, without tiring of or rejecting. However, it is often useful to give a glass or two of buttermilk, or some cottage cheese (made without scalding) if the bowels do not move naturally while taking the full amount of milk. Sour milk that has coagulated, called "clabber, or loppered milk," may be beaten up with an egg-beater, and makes a very good substitute for buttermilk.

But the best of all ways of overcoming the initial constipation on a milk diet is to take more milk. In every case there is necessarily a considerable portion of the milk undigested at first, and the percentage of undigested matter increases as we increase the amount taken. On a generous milk diet regular stools occur largely as a mechanical result at first; the accumulated feces are too great in amount to be retained. This is often noticed where patients are taking an amount of milk somewhat too small to cause daily movements. Increasing the amount one or two pints daily generally has an immediate effect, changing the discharge from dry, hard, round balls to a soft, continuous cylinder, with more frequent movements. It is possible that only a small portion of the additional milk is digested, although an increased rate of gain in weight is always shown in such cases.

While it is true that certain parts of the milk, as the fat and casein, or cheese, are never entirely digested, there are other parts, as albumen, milk sugar, and mineral salts, that are always

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water, taken in unusual quantities, is almost as indigestible and uncomfortable as some foods are, to a weak stomach. It is not absolutely necessary to have fruit during the fast, and if patients cannot find fruit that they can eat with a relish, they had better omit it. But where fruit is eaten, it is frequently the case that, on beginning the milk diet, the bowels move spontaneously the first day. If the bowels do not move the first day, let them go until the next morning, unless positive discomfort is experienced, and, if no indications of a movement on the second day, an enema of warm water (at the body temperature) may be taken. No more water should be taken than is necessary to accomplish the purpose, and if even a small passage is secured, do nothing more until the next morning, unless the bowels move naturally. Do not strain, or attempt to force a movement.

The movement on the morning of the second day of milk drinking will contain the undigested part of the fruit eaten just before starting the milk, and perhaps the last part of it will be tinged white or yellow by the milk. The movement

on the third morning may still contain traces of the fruit, but will be mostly a milk stool.

If any trouble is experienced in passing feces from the rectum, even with the aid of an enema, it will be on this third morning, and seldom after that. It is only a local trouble, right at the outlet of the rectum, and copious injections of warm water, with perhaps a little soapsuds or common salt, will overcome it, and it will not recur, if the milk is kept going regularly.

It is best to secure an evacuation every day, if only a small one, and the warm water enema will be all that is necessary to obtain it. If the injection is needed for several days, decrease the amount of water used every day, until only about a teacupful is used. The rectum will be getting more power all the time, and probably the feces will become softer.

After about a week using the warm water injections without securing spontaneous movements, it is a good plan to use a very small injection of cold water, the colder the better. Cold water acts as a stimulant to the rectal muscles and causes a

contraction which brings on the movement. Usually two or three trials with cold water will put the bowels in shape to have natural movements.

The color of the stools, after the bowels are clear of food previously eaten, is a chalky, or grayish white, in nearly every case. A few persons have soft stools, of a yellowish color, right from the start. As the patient goes on with the diet, more yellow color appears, and the discharge is softer, and movements more frequent—two or three a day. A light orange color usually indicates a good condition of the bowels.

When normal evacuations are established, there is never any return to a constipated condition so long as the same conditions of rest, milk, etc., are continued. When ordinary diet and habits are resumed there is very seldom any difficulty, because the regular habits established while on the milk, and the increased power of the peristaltic muscles, the improved digestion, and increased circulation, all tend to prevent a relapse.

There have been patients with obstinate and long-continued constipation, who, for lack of

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A preliminary dose of castor oil, the night before starting on the milk diet, will cause a movement the next day, and half as much oil for two or three days will generally tide any one over the danger of having impacted feces. If the milk is taken regularly, and in sufficient quantity, the movement will, after once being established, always arrive at the rectum sufficiently soft to be removed by an injection of warm water. There is one thing to be said in favor of castor oil, aside from the fact that it is one of the safest laxatives, and that is, that its taste is not sufficiently pleasant to most people to endanger a habit, as is often the case with the sugar coated pills.

Beware of the "A. B. S." pill. That combination of aloes, belladonna and strychnine taken for any length of time, causes the most difficult constipation to cure that I ever met, because the unnatural stimulation has finally exhausted and paralyzed the muscles.

Another oil that I sometimes use because it has some good effects, and no bad ones that I am aware of, is liquid petroleum, called by different

makers, alboline, neutrol, nujol, calol, stanolax, neutralol, etc. This does not operate in the same way that castor oil does, as it is not a cathartic medicine. It does not hasten the time of passage of the intestinal contents, so that its effects will not be noticed for a day or more. But, in nearly every case, where an ounce or more is given three times a day, with the milk, it prevents fecal impaction and renders the stool softer and easier to discharge. As this mineral oil is probably not absorbed into the system, but simply acts as an oily diluent to the bowel contents, its use is not detrimental, either on an exclusive milk diet, or ordinary diet. It is odorless, colorless, and almost tasteless.

It usually prevents the feces forming hard, round balls, and considerable of the oil is passed in an oily, liquid condition. With ordinary food, the feces become quite soft, of a brownish or reddish color, and some people complain that a portion of the feces or oil, may slip out before they are aware of it, and stain the clothing.

Another inert material which is supposed to absorb water, and carry it through the intestines,

preventing the drying out of the stool, is agar-agar, a whitish, flaky substance, which is chewed with the food. It forms the base of several much advertised remedies. Whatever its merits may be in connection with ordinary diet, it affords no benefit with the milk diet, but the seaweed from which it is prepared, seems to have more effect. I am able to secure this dried seaweed in certain stores on the Pacific coast, and find that chewing up a small portion of one of the flat, broad leaves, helps to overcome the constipation of the milk diet. In fact, I now regard this seaweed as the most useful aid obtainable in constipation.

Where the liver is inactive, and the secretion of bile deficient, a small amount of ox gall can be given at night, and it will insure a movement in the morning. From two to five or six grains daily is usually sufficient. It can be given in capsules, but I always keep on hand a supply of specially prepared pills to use in these cases. This use of a remedy which is normally made in the body seems to be a contradiction of the principles previously expressed, but after long experience,

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one the trouble and delay of writing, or telegraphing me for instructions, as has happened several times.

In the first place, enemas, when used, should be taken while the patient is lying down, and retained a few minutes, if possible, to soften the matter and give better effects.

Where there is an irritable condition of the rectum, or patients say that enemas "always upset them," I have the nurse inject about an ounce of warm olive oil, late in the evening. They retain this over night, and a small warm water enema in the morning usually causes a movement without discomfort. Or an enema of water and oil may be prepared by mixing the two just before using by rapidly pouring back and forth from one vessel to another.

If plain water has no effect, the addition of a tablespoonful of common salt is a good plan. The strong, salty water draws water from the tissues, and this secretion washes out the matter in the rectum. The injection of glycerine acts in the same way, but more strongly. An ounce or two

of glycerine thrown into the rectum by means of a small syringe acts effectively, and within a few minutes. It is not wise to use the glycerine more than one day at a time, as its continued use irritates and inflames the mucous membrane.

A powerful enema used in hospitals when they have a bad case of hardened feces in the rectum, is composed of a pint of pretty warm water, two drams of ox gall, and four ounces of glycerine. To be repeated, if necessary.

Proper care and attention to the stools for a few days in starting the milk diet will prevent any trouble requiring such strong measures as are given above.

Patients often ask me whether the use of dilators is harmful, or beneficial. I certainly do not approve of the continual use of the plugs sold for that purpose; if used at all, they should be removed immediately, and not left in long, as some of the manufacturers recommend. A better instrument is made somewhat like a surgeon's speculum, so that the blades can be separated as far as advisable, and closed up before withdrawing.

Dilation is useful, not only in constipated conditions, but in some forms of nervous trouble, and insomnia.

It is not really necessary to buy an instrument, because the old fashioned way of greasing the two forefingers, squatting down, inserting the fingers by putting the hands under the hips, and stretching the anus, is just as good, and under better control.

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ment in the blood, both in quantity and quality, and the changes in the lungs it brings about.

In addition to the increased capacity of the lungs previously spoken of, there are some characteristic reactions which always occur in pulmonary tuberculosis.

Many people, at some period of their lives, contract consumption and are completely cured simply because their vitality is strong enough to overcome the germs.

Just as soon as a consumptive has sufficient blood to prevent the wasting of the tissues, the loss in weight stops, and on a further increase of the nutritive fluids, the healthy cells are so strengthened as to prevent any extension of the disease. Next follows in natural order the recovery of the affected cells, or the development of new ones, and the elimination or absorption of the germs.

Almost every case of tuberculosis with consolidation of lung tissue, starting in on the milk diet, has a coughing crisis, generally about the end of the first week. The cough and expectoration

greatly increase as the consolidated portions of the lung loosen up and air enters the cells which have been filled up with the products of the disease.

The cough is easy and the sputum comes up from the lungs readily, while previously the cough may have been hard and ineffective.

Most of the authorities on tuberculosis include among the first signs of improvement a decrease of the cough and expectoration.

This may be the case in a dry climate on an ordinary diet, because the inflammatory products would be gradually absorbed and largely eliminated through other channels or perhaps even made over and used in the system.

Probably this process also occurs to some extent in this treatment, but I have seen almost a quart of sputum come from a patient in twenty-four hours at this time. Later on, of course, the coughing and sputum decrease.

On physical examination, after the increased expectoration has ceased, air is heard entering the

previously solid portions of the lungs and as the air cells become cleared out, the breathing sounds become normal. In cases where cavities have formed from the breaking down of the consolidated area, sounds are heard later on, indicating the hardening of the walls of the cavity and cessation of the extension of the disease.

After another period of time the cavity may decrease in size. I have observed cavities as large as a sugar bowl become cleared out and firm walls formed around them and years after have noticed a sinking in of the chest walls and almost complete obliteration of the cavities with normal lung tissue around them.

Air is more important to a consumptive than to any other invalid. In my opinion it does not matter what kind of air so long as it is pure.

If the condition is serious you must stay in the open air day and night. Keep out of rooms, churches, theatres, cars or any crowded place.

Under ordinary hygienic treatment many cases have been cured at high altitudes, others in the Salton sink below sea level, others on long sea

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tery of the thigh and on beginning a milk diet the pressure of the blood ruptured the aneurism, causing a fatal hemorrhage before medical aid could be summoned.

The same danger would be present after a major surgical operation, and is well understood in hospitals, where such patients are given very little fluid for some days after the operation.

I do not believe this danger would be present with an aneurism caused *by disease* of the artery, because the new blood would rapidly strengthen and restore the weakened walls. I would not hesitate to apply the milk diet to such a case, beginning it rather gradually, and should confidently expect a complete cure, but such patients must have complete rest for several weeks.

I can imagine a patient with a cavity in the lung crossed by an artery, whose walls are eroded and weak, which might break and cause considerable loss of blood.

Out of several hundred lung cases I have never heard of any serious hemorrhages, but where cavities are suspected to exist, the beginning of the

diet should be gradual, commencing with, say, three quarts and increasing one glass daily until the regular amount is reached about the third week.

There may be small hemorrhages from capillary vessels which are extending into the diseased tissues, where the circulation had previously been absent, but they amount to nothing. They soon close and the loss of blood is not noticed where it is being made so rapidly.

Bleeding from the mucous membrane of the nose and throat may also occur where there has been a catarrhal condition, but it is always slight and never harmful.

Those living in high altitudes and subject to hemorrhage should always begin milk gradually.

CHAPTER VII.

CATARRH AND ASTHMA

CATARRH is a very common disorder, affecting the mucous membranes in various parts of the body. It varies from a slight, transient, "cold in the head," to chronic and serious conditions of the nasal passages, throat, lungs, stomach, intestines, etc.

At first one may be subject to the attacks only at certain times of the year, following exposure to unusual weather conditions, usually after being overheated, but afterward it may be present, more or less, all the time.

The milk diet treatment seems to have a direct and invariably beneficial effect on catarrhal conditions of any mucous membrane. The very first result is a strengthening and general building up of the softer tissues of the body, those which are first influenced by a richer blood supply, and the

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milk, is to relax the whole body, and lie down flat in bed, and this point usually comes even in some bad cases, within the first two or three days. After that time the recovery goes on without interruption. Do not discontinue the rest part of the treatment too soon, but let it bear some relation to the time the disease has existed. As the patient gets stronger, the lungs clearer, and the breathing regular, increase the air in the room and remove some of the covering from the bed. Harden them off before getting up and beginning exercises. Continue the milk for weeks, perhaps, after getting up, if the case has been serious. It is important, even more so than in other diseases, to do the cure completely at the first trial, and not stop, after a certain amount of improvement is obtained, with the expectation of finishing up some other time.

Asthma is easily curable previous to the time that actual breaking down of lung tissue takes place, and after that I know of nothing that will give more relief than the milk diet. Old cases of asthma, with chronic bronchitis and emphysema

look, and I suppose they feel, like the most miserable people in the world. But there is always a great improvement on the milk cure, especially if they break away from their depressant medicines,—a thing they are very loath to do.

I make no distinction between the different forms of asthma, as usually classified: Cardiac, renal, peptic, thymic, nocturnal or various forms of hay fever; the greatest possible benefit for all of them is obtained on the milk diet.

CHAPTER VIII.

AUTO-INTOXICATION

AUTO-INTOXICATION, or self-poisoning, seems to be becoming more common every year. Two-thirds of the people applying for sanitarium treatment suffer from this trouble. The name indicates a condition rather than a disease, but it is a condition that induces many chronic diseases. It is caused by the absorption into the circulation of some portion of the contents of the large intestine, particularly those contents which have remained there too long. The condition is easily diagnosed, as indican is usually found in the urine, and its presence is good evidence of the existence of the disorder.

The symptoms of poisoning of the system by toxic substances in the colon are so characteristic that it is usually unnecessary to make an examination of the urine. The drowsiness and lack of energy, headaches, frequent periods of misery

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harmful material, more than counterbalances the benefit derived from the good material absorbed. This is especially true of the colon, or large intestine, which includes the last five feet of the tract. In the colon, in health, most of the food value is absorbed into the body, after it has been elaborated by passing into the mouth, through the stomach, and downward through the small intestine. But in the class of cases under consideration the colon seems to have lost its useful function, and is filled with a mass of dead and decomposing matter and putrefactive bacteria.

This condition is all wrong, and seems to be confined to the human race, as no other animal is known to suffer from this chronic disorder. Civilized man, occupied with the pursuit of business, or pleasure; the attainment of mental development, or the grind of daily work, gives little thought to those functions of the body that seem unimportant, or that may be postponed until a more convenient time. Animals, living in more natural conditions, do not hesitate to relieve themselves at the first call of nature, and their colons, if they have the organ, remain in a healthy state.

Man restrains the impulse to evacuate until some convenient time, and each time the natural desire is suppressed, the function is more or less weakened. The time comes when he feels that the bowels should be emptied, and being unable to bring on the act by natural efforts he resorts to some artificial method. This usually fixes the condition called constipation, meaning delayed, infrequent, or insufficient fecal evacuations.

In resorting to remedies to relieve the trouble, few people use any systematic method. Usually, when disagreeable symptoms arise, resort is had to medicines—laxatives, purgatives, cathartics, hydragogues, cholagogues. It cannot be denied that there are many things that will force the bowels to move. In the whole practice of medicine nothing so nearly approaches an exact and reliable art as the giving of cathartics. In every other disarrangement of the body functions, the physician, no matter how great his experience, gives his accustomed remedy, and—waits to see if it works. But if the patient be constipated, he stands on sure ground. The bowels can be made to move. The medicine may not work the second

time, or it may require more of it for repeated effects, or another medicine may have to be used in time, but there is usually some way to force the desired end.

The intelligent doctor does not claim that this method will ever *cure* constipation. If very intelligent and very frank, he will admit that it does not relieve the *cause* of the constipation, and probably makes the condition more permanent.

Catharsis is a convenient thing, and profitable to the druggist. If the sales of cathartics, oils, salts, mineral waters, and all the so-called constipation cures were suddenly stopped, the drug trade would lose its principal support.

I have the same opinion expressed by Dr. Oliver Wendell Holmes, that, if all these medicines were thrown in the sea, it would be all the better for mankind and all the worse for the fishes.

I have treated hundreds of cases of auto-intoxication, and cured them, by using an exclusive milk diet under proper conditions. I have found that two or three days of the milk diet, and rest,

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In previous editions of this book, I have not recommended this treatment, indeed, the tablets said to contain the life-prolonging bacilli that I experimented with, seemed inert and useless. But now it is possible to obtain in most cities true cultures of the so-called Bacillus Bulgaricus, and, after using them, and milk soured by them, I have come to the conclusion that a discovery of great value has been made.

Undoubtedly the researches of Professor Elie Metchnikoff have made this remedy available. His investigations practically prove that man's tissues are deprived of their best work and his life actually shortened because of a constant daily poisoning of his vital organs from myriads of putrefactive bacteria in the large intestine.

Metchnikoff and his assistants in the Pasteur Institute made exhaustive studies of the soured milks, especially those used by Bulgarian peasants, and discovered a particularly strong lactic acid bacillus now called the Bulgarian bacillus, or bacillus of Massol. Pure cultures of these bacilli are now on sale in most large cities and a large

and increasing number of reputable physicians are making enthusiastic reports on their use in many different diseases. There can be no doubt of the benefit of the bacillary treatment in diabetes.

I have not space to go into the details of the lactic acid bacillary treatment, especially as the ground has been so thoroughly covered by Professor Metchnikoff's book, "The Prolongation of Life," and "The Bacillus of Long Life," by Douglas. I should not neglect to mention also Dr. Lorand's splendid book, "Old Age Deferred."

For several years I have been using Bulgarian bacilli in connection with an exclusive milk diet, and with good results, particularly in cases of intestinal putrefaction. There can be no doubt that the lactic acid germ discovered by Metchnikoff is a powerful aid in disinfecting the colon.

However, the fact must not be lost sight of that *all milk contains lactic acid bacilli*, and it is possible that the good results obtained by means of an exclusive milk diet are to some extent due to the large number of these germs taken into the system.

In other words, as a person living on milk alone must absorb countless millions of the ordinary lactic acid bacilli, this immense amount and the continuous action may equal in effect a smaller number of the stronger imported germs taken two or three times a day.

People may overcome illness and prolong their lives by using the Bulgarian bacilli, but I am well satisfied that the same effect has often followed a course of exclusive milk diet during my long experience with the latter treatment.

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taken, it means an increase in weight, at first, anyway.

Very many of them are gross eaters; some hygienic writers go so far as to say that they all are. Not many are willing to give up the pleasures of the table for an exclusive milk diet.

A fast is often beneficial to this class, but most of them will not listen to it. If they fast for a time they commit such excesses when they resume eating as to nullify all the benefits.

Those who can afford it go from one hot spring to another, drinking vile tasting and smelling waters, taking mud baths and being doctored by all kinds of quacks, with all sorts of medicines. The resorts where a "good table" is set appeal to them the most and hold them the longest. Very few permanent cures are performed in these places.

Some, like the Arkansas Hot Springs, often greatly benefit invalids, but there the water is quite pure, and the good results come from the change to the pleasant mountain air, drinking large quantities of water, taking a daily warm

bath, and experiencing a general improvement of hygienic conditions.

I have seen fully as good results in Long Beach, California, from a free use of the soft, artesian water, together with a more correct diet.

The milk cure does not meet with the ideas of most rheumatic people because they must take a fast to begin with, and next they must cut off their meat, eggs, tea, coffee, whiskey and tobacco.

They cannot see the need of going to bed for they think that would make them weak; they would rather hobble around for years like cripples than go to bed for a fortnight and get well.

Many sufferers from rheumatism have started in bravely on the milk diet, but have stopped short when a natural reaction occurred. In this disease, as in many others, the first sign of a cure is a stirring up of the old trouble, causing often a recurrence of the rheumatic attacks.

It is very common, almost the rule, I should say, for a case of chronic rheumatism, starting on the milk diet properly, to have a return of the old

symptoms. If the disease has previously taken the form of lumbago, after a few days of the diet, some movement or muscular effort will suddenly bring on a typical attack of the pain and spasm. If the patient keeps on with the milk the attack disappears after a day or two, but within a few days more a second attack may come on, but always much lighter than the first. I have seen even a third attack, but so slight as to cause no inconvenience.

If the patient goes through the first attack without ceasing the regular taking of the milk, any further appearance of the trouble will not hinder a cure, because it will be evident from the lighter form that the disease is being mastered. The explanation of these "crises" may be found in the fact that the circulation of the blood is greatly stimulated while it is not yet purified. The excess of fibrin, the uric or lactic acid, or whatever the rheumatic poison may be, is still in the blood and being driven around with greater force, or into parts where previously the circulation had been stagnant, so it is only natural that such reactions

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rheumatism, when others, living apparently in the same way, should be free from it; why one class of people is subject to rheumatism, but never have tuberculosis, and another class is liable to be consumptive, but never rheumatic. Innumerable volumes have been written on rheumatism, gout, Bright's disease, chronic bronchitis, asthma, etc., but to my mind they are all different manifestations of the same disease, and that disease is simply the deranged condition of the assimilative or eliminative organs which permits the poison to accumulate in the blood.

Undoubtedly the class of food eaten has an important influence, for meat extract, meat and fish always increase the amount of acid in the blood, while a vegetarian diet always decreases it. Tea, coffee, and cocoa also contain the so-called purin bodies or bases, of which group uric acid is a member. Milk is absolutely free from these bodies.

Dr. Sherman, Professor of Food Chemistry at Columbia University, in his new book, "Food Products," says of milk: "It has the advantage

of not containing the substances which yield uric acid in the body."—Page 77.

Professor Weir Mitchell says uric acid disappears from the urine while skimmed milk alone is being taken, but reappears on the addition of other foods, especially meat. I do not think skimming the cream from the milk would make much difference. I am sure that some of my rheumatic patients obtain freedom from uric acid by the use of unskimmed milk.

The urine of these patients from being highly acid, changes very quickly to the normal condition of a very slight acidity, due to acid phosphates. The perspiration, however, continues highly acid for several days, and sometimes for weeks. The odor from a rheumatic patient on the milk diet is distinctive and unmistakable, but becomes gradually less as they go on to a cure. Many other patients have odors of more or less intensity emanating from the skin, and none of them may be considered cured as long as this persists, no matter how well they may otherwise appear.

There is no form of rheumatism, acute or chronic, of the bones or muscles, so far as I know, that cannot be successfully treated by the milk diet. But there are some cases with obscure, deep-seated pains, probably in the bones and worse at night, which are not rheumatism at all, and cannot be cured in as short a period as rheumatism can.

I have treated several cases of rheumatoid arthritis, or arthritis deformans, with badly ankylosed or stiffened joints. The progress of the disease always stops on the milk diet, and, to my surprise, at least two patients recovered movement in joints which I had thought permanently stiff, but the diet was continued for some months in both cases.

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mained in perfect health after their course of milk diet.

It makes no difference whether a person likes milk or not. One of my most satisfactory cases was a lady who had not been able to take any milk for over forty years. There is no great difficulty in handling the proper amount of milk if it is taken in the small and frequent doses that I recommend, and the patient kept at rest until the stomach and bowels are working well.

Certain specialists say that a dilated stomach is a bar to an exclusive milk diet. This is a great mistake. A dilated stomach is one of the easiest things to cure on the milk diet taken while resting. Probably if only a small quantity was taken it might aggravate the trouble, but where the proper amount, or anywhere near it, is given, there is no difficulty in restoring the tone, strength and proper size of a weakened and dilated stomach. I think the stomach is the first organ to be restored to a healthy function, in nearly every case.

Chronic diarrhea can be cured on a milk diet in a few days, if the patient can take sufficient

milk to raise the blood pressure and heart pulsations. One lady with a long standing case of this trouble, took milk for four weeks, with little apparent improvement, except that her weight increased from eighty-five to ninety-four pounds. She had been weak and nervous, largely, I think, as a result of a severe capital operation she had undergone at Battle Creek, Michigan. She could only take about three quarts daily, and this seemed to be too little to restore the proper circulation. But fortunately, when she resumed ordinary diet her bowels operated in a perfectly normal manner, and after nearly three years her health continues good. A gentleman from Maine who suffered from membranous colitis, which had become so acute that he was losing five pounds a week in weight, took the milk diet carefully under my supervision, and at the end of five weeks I discharged him permanently cured, and he remains well after ten years.

An Asiatic disease called sprue has connected with it a severe form of chronic diarrhea or dysentery. I have heard of several cases being relieved

by the milk diet, and a medical missionary from China informs me that over there a milk diet is the only known cure.

Regarding kidney disease, some doctors without personal knowledge on the subject have declared that such excessive quantities of milk would ruin any kidney. In answer I say that the amount is not excessive, but only the natural amount required, and that the kidneys do stand it, and grow healthier every day. It is no hardship for any organ of the body to exercise its natural function when it is given the proper material to work upon. The function of the kidney is to separate from the blood and eliminate from the body certain salts and waste materials, and regulating the blood pressure and increasing the amount of blood makes this function easier. The fact that a much larger quantity of urine is passed on the milk diet than usual only indicates that the work of elimination is assisted by the larger amount of water passing through the kidney.

The urine of a healthy person is more or less poisonous. It contains toxic materials eliminated

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shows more or less pathological change in the delicate structure and complicated arrangement of the uriniferous tubules.

I have seen many very serious cases of albuminuria and Bright's disease take the milk cure, during the last thirty-two years, and I have never heard of any of them having any trouble from the disease afterward. I believe that diseased kidneys are restored to almost perfect condition by the milk diet.

Floating, or movable kidneys, are easily restored to their normal condition, in the milk cure, and they stay fixed, because the normal support of kidney fat is built up around them and holds them in place.

Regarding heart disease, meaning usually organic or valvular disease, there is a general impression that the less fluids given the better it is for the patient. Schroth's method of an almost dry diet was thought to be good for heart disease; Oertel's method of dry diet, with active exercise, helped many cases, and Tuffnell's treatment of

absolute rest with a dry and very restricted diet has made some remarkable cures.

I was, for many years, under the impression that the milk diet could not be given in severe forms of heart disease, but I have so completely changed my views, simply from the result of observation, that I now feel sure the milk diet can be given to any case of heart disease, with the greatest success possible by any treatment. Further than that, I make the prediction that the future treatment of severe forms of organic and functional, or nervous heart disease, and aneurisms, will consist almost entirely of the milk diet and rest.

A broken or ruptured valve may not be restored by the milk diet, or any other treatment, but it can be compensated for, so that the possessor may live in comparative comfort. Almost any other form of heart disease can be successfully treated by means of the milk diet. The simplest case of all is the weak heart of an anemic person. Such people, with poor circulation, white, pasty looking skin, usually under-weight, but sometimes fat

and flabby; weak and languid, disinclined to exertion and easily tired, with typical heart sounds—the "anemic murmur," and a small, undeveloped heart, can obtain perfect health on milk and rest. I have seen some of them lose the murmur in two or three days, followed by a steady growth of the heart in size and strength, with a corresponding improvement in the general health.

Every doctor sees young people with the disease, or condition, rather, called chlorosis, or "the green sickness," which is often benefited by the administration of iron, because the blood of such people lacks the necessary amount of iron.* Milk always contains iron, and a short course of the milk diet always cures chlorosis, and puts the general system in good order, a fact which is not always the case after the administration of medicine.

***Prof. Sherman says on Page 78 of Food Products: — "Iron is present in milk in only small quantity, but evidently in a form exceptionally favorable for assimilation, and adequate for the maintenance of iron equilibrium in man."**

This footnote for the benefit of critics who claim milk contains no iron.

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I have stated elsewhere that the heart increases in size, and this is true of every case, except the dilated weak heart. It is not difficult to prove this, as any patient with a weak heart can observe the apex beat of the heart move downward and to the right as the cure goes on. Growth of the heart follows the laws governing all muscles, that, if the nutrition is kept up, increased work is followed by increased size. The very first work that the blood made on a milk diet has to perform is to nourish the heart itself, for the first arteries leading from the aorta, or main artery of the heart, are the coronary arteries, which turn back into the heart muscle to supply it with blood.

One disease that is difficult to treat with a milk diet is chronic inflammation of the bladder, especially the tubercular form. This is usually considered incurable, and I know nothing better for it than this treatment, but these old, inflamed bladders with thickened walls and degenerated linings, have a very small capacity, so that even on ordinary diets urination must be performed very often. With the amount of urine increased three

or four times, and the diseased organ showing no immediate improvement, it requires considerable faith, or persistence, on the part of the patient to carry on the treatment. The rubber urinals sold by druggists are of material assistance, and as the urine becomes soft and unirritating, the bladder can hold more of it than while the person is on an ordinary diet. Indeed, it is a great relief to these people to have the urine change from the fetid, irritating, ammoniacal, decomposing stuff to the almost colorless and odorless water characteristic of the milk diet.

Stone in the bladder can be cured by this treatment every time, I believe.

The milk diet has proved invaluable to many young women with painful menstruation, misplaced, or undeveloped wombs and other disorders peculiar to the sex. Fibroid tumors of the uterus have been known to disappear under this treatment, and many other conditions, apparently only suitable for operations, have been remedied. There is a great development of the pelvic organs, while resting and taking the milk diet.

Usually the best time to start in with the milk is right after a menstrual period. The next period may be, and often is, irregular as to time, but if three weeks elapse before it comes on, it is almost always the case that the pain will be greater than usual, and some patients are inclined to stop the milk to get relief. The pain is due to the unusual amount of blood, in excess of the ordinary congestion at this period. If a woman can stand the pain, and keep the milk going, greatly improved conditions will be noticed at the next menstruation.

The relief experienced by these cases is similar to that occurring after a normal childbirth, after which, as most married women are aware, menstruation almost always ceases to be painful.

There is, perhaps, no part of the body that receives greater and more uniform improvement in this treatment than the generative organs. milk is the best nerve food that we possess, and the connection between the nervous system and the sexual organs is a very close one. The improvements in the two go on coincidentally.

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whether it takes one day or ten, but is harder for them to stop eating than any other class of patients. The constipation must be overcome as quickly as possible, and I find that ox gall, in five grain doses, works very well. After a few days, if constipation continues, give liquid petroleum, in tablespoon doses, three times daily.

I have been reviewing all the available literature on diabetes, and while my experience has been quite limited with this disease, as compared with others, I am satisfied the cure for the trouble will be found in either sweet milk or buttermilk. Prominent medical men in New York are reporting wonderful cures made by the administration of cultures of the Bulgarian lactic acid bacilli discovered by Professor Metchnikoff, and they are claiming these bacilli are a specific for diabetes.

All milk contains lactic acid bacilli, and while the ordinary milk may not contain bacilli as powerful as the Bulgarian species, the immensely greater number of the germs taken on an exclusive milk diet should more than make up the difference.

I hope to be able to continue my experiments with diabetes.

Regarding the treatment of cancer with the milk diet, I am not certain that it has ever cured it, but I do know that enlarged lymphatic glands in true cancer cases are very much reduced in size, and the patients' general condition improved.

I understand that tests on cancer cases have been, or are soon to be made, in an Eastern city, with the milk diet treatment.

I have treated successfully many cases of skin disease, including, I am sure some cases of Pellagra, which has only recently been well recognized in this country.

When I heard that the treatment used in Europe, where the disease has existed for hundreds of years, consisted only of rest, fresh air, bathing and a nutritious diet, I felt confident that the milk diet would be the proper thing for it.

Two gentlemen took the treatment in other states, on my advice, after pellagra had been diagnosed by experienced physicians. Both were cured. The most serious case had been examined

by experts in the disease, and pronounced hopeless. Because he recovered so quickly, I presume, it was stated afterward that he had not been afflicted with pellagra.

The discoverer, or original describer of pellagra, was Gaspar Casal, who lived in the Asturias, Spain, 1679-1759. Regarding the treatment, I quote his own words: — "I have observed constantly that the change from ordinary diet for another more substantial and more nourishing is most useful in controlling this disease. If it were possible to apply to these poverty stricken sick the same remedies as to the rich . . . I would prescribe for them warm baths . . . and, above all, good and nutritious food."

This disease is very prevalent in our Southern states, and it is said thousands of people die of it annually.

Dr. J. Lewis Day, of Normal, Okla., says: "Our most successful form of treatment has been dietetic. We have fed our pellagra patients on a diet rich in animal proteins and low in carbohydrates. This has been done regardless of diarrhea or

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kin's disease, or any disease of the thyroid or lymphatic glands.

It has been shown that milk contains the internal secretion of the thyroid gland, and this secretion is now supposed to have an important influence on the prevention of some diseases, and the cure of others.

While I recommend the treatment for Locomotor Ataxia because the general condition of the patient has always been improved, I cannot say that the disease has been cured, except in the first stages.

The same can be said of Paralysis Agitans, although in this last disease I have only had experience with advanced cases.

CHAPTER XI.

HIGH BLOOD PRESSURE

THIS is a very common, but serious, disorder, the treatment of which by the milk diet is so successful that the fact should be universally known. It is usually caused by hardening of the arteries, or ARTERIO-SCLEROSIS, sometimes spoken of as a physiological process.

"A man is only as old as his arteries," refers to the fact that, while hard arteries are a frequent accompaniment of old age, they may also be present in a young, or middle-aged man, who has lived improperly.

Hardening of the arteries is perhaps the first apparent change in the blood vessels that indicates beginning degeneration. It is included by medical writers in the descriptions of degenerations, and, while it is admitted that the condition may continue for years before it becomes dangerous,

it is generally considered the beginning of the end. It is surprising to see how little hope is held out to persons afflicted with this disease, by writers on the subject, who seem to take it for granted that there is no cure, nothing to do but to make them as comfortable as possible, "enjoin them to lead a quiet, well-regulated life, avoiding excesses in food and drink." "It is usually best to frankly explain the condition of affairs," etc.

After a certain time, the duration of which varies in different cases, the inner lining of these hardened arteries softens, ulcerates, and breaks down, resulting in aneurism, embolism, apoplexy and paralysis.

I believe that almost every case of this disorder can be cured, if treatment is used before the ulcerative stage begins. One old gentleman whose pulse felt like a wire, took the milk diet treatment nine years ago, and in less than four weeks his arteries were soft, and the neuralgia of the heart, from which he suffered intensely, disappeared. Neither the sclerosis nor the heart trouble has ever returned since that time.

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forty-two to seventy-six, the majority being between fifty and sixty.

At least thirty of them had Bright's disease of the kidneys, and probably half of them had some form of rheumatism, asthma, or bronchitis. At least ten of them had suffered paralytic strokes. Two had angina pectoris, three gallstones, and some had gravel.

Their blood pressures ran from 160 to 265, on beginning treatment.

I was able to trace the subsequent history of nearly all of these cases, and, with the exception of six people I found that they remained in either good health, or fairly comfortable condition.

One of the six cases referred to, took treatment for advanced Bright's disease, and was practically in a coma during the start of his treatment. He recovered from that, and showed no evidence of kidney trouble afterward, but died four years after taking the treatment from degeneration of the spinal cord and muscular atrophy, probably brought on by an accident and terrible mental shock.

One who took treatment in 1906, and apparently entirely recovered, died seven months afterward from poisoning, which the coroner declared was accidental.

One old lady who took treatment in 1908 and apparently got into perfect health and vigor, died suddenly two years later of a stroke, following a day of great bodily and mental strain.

One gentleman of sixty-two, with blood pressure of 265, and evidence of severe degeneration of the arteries, advanced Bright's disease, etc., attempted the treatment as a last hope, but could not take the milk satisfactorily, and soon lapsed into a coma, and died a week after.

A lady of forty, in practically the same condition as case just mentioned, given up by family physician and relatives, tried treatment for two weeks, but failed to respond satisfactorily and discontinued it, dying some weeks later.

One middle aged gentleman, who had suffered one severe stroke, and had a continuous blood pressure of over 200, took the treatment on my advice, but practically under the care of his wife,

who was a regular physician. During the second week of his treatment I noticed that he was extremely nervous and worrying a good deal. I found out afterwards that he was carrying on operations in the grain market, and was losing money.

On the fourteenth day of treatment, when he was taking only three quarts of milk, his wife entered his room, with quotations of prices in the market in which he was interested, and two hours afterward she sent for me, saying that he showed evidence of another stroke. He died that night. This case might have been saved if he had had complete mental as well as physical rest.

These records, although incomplete, show a percentage of cures that cannot be equalled by any other treatment, in these almost hopeless cases. In fact, I know of nothing else that even helps them, outside of relief from work and worry, abstention from the foods that produce poor blood, and stopping the use of tobacco.

To show what the treatment will do, in an admittedly bad case, I give the following: Man

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away in a day or two, and he finished his treatment in quite satisfactory condition, everything considered.

Another gentleman of the same age, seventy-six, who had a pressure of 195, and had suffered with asthma for nearly forty years, reduced his pressure to 150 in the four weeks' treatment. Six months later he reported for examination, saying he had not had a trace of asthma since, and I found his pressure 145. This man after five years remains well with blood pressure the same.

A lady, forty, took treatment in 1912 for severe headaches, facial paralysis following a slight stroke, blood pressure of 185, and entirely recovered from her bad condition, including high blood pressure. For two years she reported herself as perfectly well and feeling fine. However, two years afterward she returned for treatment, when I found the following condition: Blood pressure again back to 185, headaches returned, and symptoms of another stroke impending. On inquiry I found this lady was eating meat regularly, had increased her flesh nearly forty pounds, and, to

stimulate her faculties for her strenuous mental work, was using both tea and coffee. She had even gone so far as to take headache powders, when she found herself confronted by a particularly hard day's work.

I was unable to reduce her blood pressure the second time, at least during the two weeks which she declared was all she could spare for the treatment. This lady, a most estimable church worker of Los Angeles recently died, about two years after her last treatment.

This is the only case that I know of where the high blood pressure returned after being reduced on a milk and rest treatment.

I give these actual cases, especially the poor results, for the guidance of other practitioners.

Patients who have a high blood pressure, from hardening of the arteries, must not attempt the exclusive milk diet unless under the care of an experienced and competent person. If the pressure is over 200 millimeters, extra precautions should be taken to avoid all exertion or sudden strain, and mental excitement or worry should be

prevented. They must stay quietly in bed, except when taking the bath, which must never be anything but a neutral tub bath without any sudden changes of temperature. The treatment will cure this disease, and it is the only cure for it, but caution must be observed, especially with people who have had a stroke.

A change takes place immediately, on the milk diet, while resting, so that the drop in pressure the first few days is often twenty or thirty degrees, but after that the improvement is slower, five or ten degrees a week, but the arteries are continually getting softer and more normal.

In the chapter on Reactions during Treatment I give a number of actual examples of high blood pressure cases, showing how quickly the pressure drops to normal.

In revising the book for the sixth edition, I wish to report continued success in treating arteriosclerosis and high blood pressure.

Only one case refused to respond satisfactorily, a man of about fifty-five years of age, who refused to stop smoking cigars and pipe while on the milk

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He says, in part:—

"The natural history of the production of arteriosclerosis is, I believe, as follows: The person goes through a period of great nervous shock or strain, some very acute illness, or some acute food poisoning, and this produces a change in the relation of the body cells to the customary food proteins. The person may be sensitized to meat, fish, eggs, or other proteins. When a person has been sensitized to food protein and goes on eating that food, the cells of the body are irritated and some of them destroyed, and the organs become defective and are not able to do their work properly. When the kidneys become markedly sclerotic (hardened) they do not function normally and Nature attempts to make them function better by a rise of blood pressure. This rise of blood pressure leads to hypertrophy of the heart. It leads to thickening of the bloodvessels and that creates a vicious circle. The high blood pressure damages the bloodvessels and the kidneys are further and further damaged until finally we get the picture of cardiovascular renal disease.

"Such a person coming under medical observation is ordinarily said to be suffering from one or other of several conditions—either heart disease, bloodvessel disease, or kidney disease. In reality, it is all one thing. It is cardiovascular renal disease to which for convenience we have given the name arteriosclerosis.

"The cardinal symptoms of arteriosclerosis are hard to define because the disease is not a symptomal disease. Nature provides a margin of safety in the heart, bloodvessels, and kidneys that is very wide. So the heart is very badly damaged, the kidneys are very defective, and the bloodvessels are greatly thickened before nature complains. Thus the person with arteriosclerosis has no symptoms in the earlier stages of the disease.

"This disease is not found in any of the textbooks, but I believe that a clear conception of its nature as a general disease that attacks so many people is of great importance. I know that it is of great importance to me in my work, which is limited to cardiovascular renal disease. When I treated kidneys, I never helped my patient. When I treated the heart, I never helped my patient. When I tried to soften the arteries I did my patient a good deal of harm. But since I have treated the body as a whole, and regarded the sufferers as victims of disturbed metabolism, I am sure the hygienic measures that I have advised have helped a great many of them.

"Thus it would seem that the disease called arteriosclerosis, which is really cardiovascular renal disease, is primarily due to a disturbance of metabolism extending over a long period of time. This process is subsymptomal for five, ten, or fifteen years until such time as a sufficient number of cells have been destroyed to impair the functions of the organs. This gives rise to symptoms and the disease is discovered.

"The remedy in this disease is to be found in the discovery and removal from the dietary of the offending proteins, meat being most common, and in the correction of metabolism by physical methods, particularly exercise. Exercise is the greatest stimulant of metabolism there is. Exercise makes the patient breathe deeper, it helps the digestion of food, and stimulates the kidneys. It is the great stimulant of metabolism. Exercise has an important place in the treatment of arteriosclerosis. First diet and then exercise. The third important thing is attention to the intestinal tract."

I have so many patients suffering from this condition that I am sure the following, by Dr.

John D. Quackenbos, of New York, will prove interesting and instructive, for it is true to life.

It is quoted in full from his article, read before the Medical Association of Greater New York, March 15, 1915:

ARTERIOSCLEROSIS IN ITS RELATION TO LIFE INSURANCE.*

"I am going to devote the space alloted me to a discussion of the relationship existing between arteriosclerosis in its insidious approach and life insurance risks—an application of what has been said to a business problem of supreme moment, and involving a presentation of experiences that will lend emphasis to the opinions advanced by others. The early detection of tendency to hardening or to atheroma, as revealed by abnormally high blood pressure, has come to be regarded as of preeminent importance in the examination of applicants for policies, as even more significant than the existence in the urine of a few casts or a trace of albumin, which may be fleeting as due to a mere temporary irritation from the products of suboxidation or putrefaction. In other words, the examiners for life insurance companies have begun to look not only for indications of the actual existence of cardiovascular renal disease, but for symptoms that suggest its imminence in the future. It cannot be long before inquiry will be made regarding habits of life that account for the appearance of such symptoms, as the conviction exists among all investigators that hypertension is the indisputable forerunner of organic complications that will shorten the life of an apparently well man.

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* Read before the Medical Association of the Greater City of New York, March 15, 1915.

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induce myocardial conditions or lead to renal disease. The insurance companies fully apprehend that longevity is indeed a vascular question, and so require a perfect understanding of the vascular status of the man who applies for a policy.

"The automobile and other means of easy and rapid transit which the pressure of vocational and social obligations demands in this day, has stolen from our business men their opportunity for exercise that a necessity for walking so freely offers, and well-to-do women have essentially given up the practice and are whirled from place to place in their cars. The automobile habit is thus breaking down constitutions where the remoter bicycle habit upbuilt them. It has crept into the country districts also; and rural dwellers are affecting it, making no difference in their dietary of heavy proteid foods, and depriving themselves further of health giving exercise by relegating to farm machinery the manual labor that formerly enabled them properly to digest and to eliminate. Such dwellers of the open, so long associated with vigor and length of life, are not as good risks as they used to be.

It is doubtless true, as stated by Elmer Rittenhouse, the conservation expert, that American vitality is gradually lowering, and that there are more deaths than formerly between forty and fifty years, from the degenerative disorders of mature life—apoplexy, cardiorenal and circulatory diseases, and cancer. The increased death rate during the last twenty years (from twenty-seven to thirty-eight per 10,000), which is rightfully attracting the attention of our insurance companies, cannot be laid to general causes, but rather to habits of living that have developed with the refinements of civilization, notably the excessive consumption of alcohol, tobacco, and protein fare, and the lack of active exercise properly to oxidize the food and carry off the accumulated poisons. Dr. Oscar H. Rogers, chief medical director of a prominent New York life insurance company, has stated in a letter to

me that there are numerous cases which would have formerly been regarded as normal insurable lives that are now rejected by reason of high blood pressure, and that in his experience the underlying cause of hypertension in fifty per cent of the cases, is intestinal toxemia, and in most of the remaining fifty per cent, habitual overeating. Now, as intestinal poisoning is due to erroneous diet, it is fair to assume that overindulgence and improper indulgence at table explain the abnormally high arterial tension in the majority of these applicants for life insurance.

"These questions now appear in the examiner's certificate: Do you use malt or spirituous liquors in any form? Daily quantity? (Based on the belief that if alcohol does not harden arteries it inhibits elimination of the poisons that do.) Do you use tobacco in any form? Daily quantity? (Based on the assumption that nicotine causes a rise in blood pressure followed of course by a fall, which demands repetition of the narcotic.)

"I predict that within a few years will be put the equally important inquiry: What do you eat? How much? What are your habits of exercise?

"Whereas the average length of human life is greater, and there is no evidence that ordinary policy holders are dying earlier than formerly, the average age of dissolution among the industrial policy holders of a great industrial insurance company being forty-two, among the ordinary policy holders forty-six years, greater caution is exercised by life insurance examiners, who are better informed as to the causes of such deaths, in the interpretation of blood pressure. A pressure above 150 at the age of fifty years is regarded as prohibitive by this company. Another prominent company regards a blood pressure higher than the average by about fiftten per cent as probably safe, accepting the following averages as normal:

Age 20	120	probably safe 137
Age 30	123	probably safe 140
Age 40	126	probably safe 144
Age 50	130	probably safe 148
Age 60	134	probably safe 153

"Cases of blood pressure exceeding the probably safe limit, when kept under observation, have been found sooner or later to show albumin and casts, and are likely to terminate in Bright's disease or apoplexy. It is to be remembered, however, that many cases of arteriosclerosis have a normal or even a subnormal blood pressure.

"Low blood pressure is less significant from the viewpoint of the insurance companies. An adult pressure under 105 is regarded with suspicion. It is interpreted to imply diminished powers of resistance, and in persons belonging to tuberculous families or living amid unhygienic surroundings, to intimate quiescent tuberculosis.

"The appalling strain that human beings are subjected to in this modern civilization may be evolving a stronger race, better adapted to endure it. But a life insurance company is without prescience, and cannot intelligently select from the ranks of those who are playing with fire the few who will not be burnt, without the exercise of all but superhuman precautions."

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a comfortable bed and the necessary toilet utensils. A vase of fragrant flowers is always acceptable, but showy ornaments or pictures, or lace curtains, are out of place.

Nor is it necessary to have frequent examinations of the body, of the urine, the blood, or the secretions of the stomach, etc. After a long sanitarium experience, and listening to the histories of many people who had been the rounds of the various institutions, I am firmly of the opinion that these "examinations," as usually conducted, are mainly beneficial to the staff of young doctors who get the fees, and incidentally, some experience. Of what possible use is it for the patient to learn one week that he has "hypoacidity," and the next week that he has "hyperacidity," if his dyspepsia is not relieved?

Such things may have their use in sanitariums conducted with the idea of having the patients stay as long as their money holds out, but they are not needed in a place where the treatment does what it is claimed to do, and patients are steadily improving.

The average person will get better results in a well conducted sanitarium than he will at home, not especially on account of more skillful treatment, but from causes that are well understood by all physicians.

The change of air and scene, the making a regular business of the "cure," the relief from home cares and worries, the getting away from the well-meant but often harmful solicitations of anxious relatives and friends, often the exchange of a stuffy, over-furnished, over-curtained, badly ventilated bedroom for a more healthful one, all these, and many other details, frequently assist in getting an invalid started on the upgrade. But more than all other things combined is the wonderful influence of the new blood made so freely on the milk. Rest and quiet, daily warm baths, and plenty of fresh, pure air, are necessary to most people in order that they may take and assimilate the proper amount of milk, and eliminate the waste products.

It is not necessary to have a daily "Health lecture," during this treatment, but frequently, at

the start, a little encouragement is helpful to keep the milk going down, because the senses of hunger and thirst do not cry for it, and it is easy to stop drinking for a while.

The best "cures," in my experience, have been the patients who started in with the full amount of milk, and took it continuously, without interruption other than during the sleeping hours. They did not stop because their stomachs seemed full or for a bad taste in their mouth. Some of them have disregarded nausea and even vomiting during the first days of their treatment. Others have suffered headaches and backaches, and, later on, the dull, stretching pain in the stomach, kidneys and liver, which may accompany the rapid growth of those organs. Very many have had returns of the old pains of rheumatism, neuralgia, earache, toothache, pleurisy, peritonitis and inflammatory conditions of the generative organs, which they may have had years before. These pains usually last about a day, but in chronic cases of long standing, where there has been considerable growth of inflammatory tissue, and adhe-

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and interfered with its action, or stimulating the normal movement where it had been paralyzed.

It is easier to understand why there should be pain with a curative process than it is to explain how there ever can be a cure without pain.

When I have told patients what, to the best of my knowledge and experience, is going on, I leave it to them to decide whether they can stand the pain, or discomfort, with the expectation of a complete cure, or whether they will have to stop the milk temporarily, and perhaps stop the curative process when it is at its height.

I encourage them by stating the fact, which I cannot emphasize too strongly, and which every one should remember, that in thirty-two years' experience with this treatment, on all classes of patients, suffering from heart disease, brain and nerve disorders, blood clots, paralysis, inflammation of the bowels, ulcerative processes in various parts of the body, chronic specific disease, or chronic poisoning due to lead, mercury, arsenic, or any medicine, I have never known of any injury or bad results from pushing the milk diet,

with the single exception of the hemorrhagic cases, such as those specified under consumption and high blood pressure.

I would advise against giving the full milk diet to any patient who had recently been operated on, or who had a ruptured artery from any cause. I am not afraid to give the milk diet in any case of diseased blood vessels, or in aneurism caused by disease, for I believe the blood carries its own cure for these conditions, but COMPLETE REST MUST GO WITH IT.

It is not possible in this little book to follow each case to the end. There is an infinite variety. If you have learned the great natural principles upon which the treatment is based and follow the directions I have given, you will be ready for any condition which may arise.

Don't leave out some portion which *you* think is unnecessary, nor add something to it which has helped you under other circumstances. Try my way first.

Those who take a full milk diet without resting, and fail to cure their disorders, should wait

some time before taking the treatment in the proper way. It is best for them to lose the flesh they gained even if they have to wait several months, or take a long fast, before trying my method.

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Another reason is that naturally, in all animals, digestion and assimilation go on better while the animal is at rest, or asleep.

With the whole body relaxed, there is not likely to be any tension on the valves or sphincters of the bowels, and consequently, movements of the contents of these organs are facilitated. Nearly all persons evacuate the bowels most readily in the morning after a good night's rest, and very few people indeed, have a regular movement in the afternoon or evening. The kidneys only do their best work while we sleep.

It is a common experience for those who take time in the latter part of the day, either for a nap or simply to lie quietly and relax the body, to notice that as soon as the strain is taken off the external muscles, there is a rumbling and moving in the bowels which causes the contents to pass through some previously obstructed place.

There is a very definite scientific reason why rest is beneficial and work harmful in cases of injury or sickness. Take the case of an injured hand, in which germs have entered the tissues.

Here the system marshals all its forces to destroy the invaders. If these forces can be concentrated upon this one task and not expended in part by the energy necessary to produce work, the chances of ultimate victory are greatly enhanced. Nature gives an imperative hint that the limb should be kept quiet by making movements painful; and most of nature's hints are well worth heeding.

But the most important reason for resting while taking the milk diet may be explained as follows: The treatment is taken to correct some function, or to develop some part of the body; something is wrong, or lacking, or needs rebuilding. In short, growth is necessary, and growth is always a function of rest. We may, by exercise, build up big muscles, but the growth even of muscles, is performed between the periods of activity, for work always uses up energy and wears out cells. Continuous work, without relaxation, would be impossible for muscles or other tissues. The intervals of rest between the periods of work enable the blood to flow freely into the part and carry the

needed nourishment to replenish the cells exhausted by the previous energy. Work may be the stimulant which causes subsequent growth, but in itself work is exhausting, destructive. Recovery and recuperation can only occur during relaxation; *we grow while resting*.

The body requires its night's rest after its day's work, and for the same reason a body weakened by a long period of strain, misuse, illness, must have a period of rest, in some measure proportionate to the period of wear. If, during this period of rest, there is an increased supply of nutrition and blood, we have the ideal conditions for rapid repair. With the wear and tear and waste of the muscular system stopped, the nervous energy which usually directs it is saved, or diverted to more useful purposes. The voluntary muscles are useful as organs of locomotion, prehension, etc., but they are not vital organs. Men have lived minus all four limbs.

In chronic illness it is the vital organs that we have to deal with, those concerned with digestion, nutrition, respiration, circulation, innervation,

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mulating a good working surplus. I hope this simile will be understood and appreciated by married folks, and others.

The success of the Weir Mitchell treatment is largely due to the complete rest prescribed for severe cases. For weeks these patients are not permitted to sit up, or sew or write, or read. They are even fed by a nurse, and talking is prohibited.

Complete rest on an ordinary diet usually means that massage will be required to move the bowels, but on the milk diet this is unnecessary.

No patient with dilated stomach, or prolapsed bowels, or piles, or prolapse of any organ, can be cured by the milk diet, if they are allowed to sit up, or walk around.

My patients usually are allowed to read if there are no headaches, and the stomach is taking the milk without difficulty. But the reading should not be continuous. Read for ten minutes between drinks, and then lay the book or paper down for fifteen or twenty minutes. Reading helps to pass away the time, and satisfies people who, without it, would want to be doing something more harm-

ful. But read as little as possible, and never by artificial light.

Talking is usually unnecessary and seldom beneficial.

Don't think because you are lying abed for weeks and keeping quiet that you will get rusty. I never knew the rest part of the treatment to do any damage; most of the patients are inclined to get up too soon, rather than stay abed too long. But they all store up energy while resting and the good effect is apparent as soon as they return to ordinary life.

Many people with tired nerves and poor stomachs cannot take a sufficient quantity of milk to do much good without being completely relaxed. But this state of relaxation is a hard one for some people to get into. They don't want to go to bed, and when they do, they stack up pillows behind their backs, until they are almost in a sitting position.

They are losing half the benefits of the treatment, and the opportunity of a lifetime to take a complete rest. Isn't it worth while to really rest

for a few weeks if comparative comfort can thereby be secured for all the remaining years of life?

To enable these folks to let go a little, to reduce the tension, the warm bath is of great use. In the warm bath only, do some of them first learn to relax. It is sufficient for some people, to tell them to lie out flat in bed, breathe deeply a few times, and then, beginning with the head and neck, relax all the muscles of the body, so that if the various parts were lifted they would fall like logs of wood. When all the muscles are relaxed there is a pleasant sensation, almost like floating in the air. Sleep secured after getting in this state is far more restful than where one simply drops off from fatigue, with all the weight of the day's work and cares distorting the body.

But many cannot properly relax at first. Here comes in the benefit of the warm bath. It is not "weakening" for these strained, nervous cases, any more than sleep is, but it does permit them to relax. Nothing supports the whole body so gently and easily as a good tub bath. I notice the insane

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To illustrate the great difference in taking the milk diet, with and without rest, I obtained permission to quote the following case:

Mr. Aubrey Parks, of Omaha, Nebraska, was attacked by acute nephritis, or Bright's disease, about seven years ago. It ran on for several months and finally became chronic, with a great deal of dropsy, in spite of treatment in two hospitals and by several good physicians. He finally went to a sanatorium in Michigan where the treatment consisted of a long fast, followed by an exclusive milk diet, a glass at a time, at frequent intervals, as I recommend. But, instead of resting, he was ordered to exercise daily, and went to the milk room every half hour for his milk.

The result was that while his dropsy and albuminuria decreased somewhat on the fast, both increased markedly as soon as he started the milk diet. He was ordered to take another fast of about two weeks and then again took the milk diet, with no better results than before.

Shortly afterward he wrote me about his case, without informing me, however, that he was not

resting while drinking milk. I replied that I could not understand it, as I had never had a case of dropsy that was not cured on the milk diet. Mr. Parks finally made the long trip to California to take the treatment in the manner I recommend.

On his arrival here September 1st, 1909, he showed a condition of general anasarca, or dropsy, literally all over the body. He could not wear any of his regular clothing, hat, or shoes, on account of the swollen, water-logged condition of his skin. His weight was 186½ stripped, although he had been fasting several days during his journey. By my direction, Mr. Parks went to bed and remained there over a month, except for the time he spent daily in a warm water bath.

He took from six to seven quarts of milk in twenty-four hours, and passed some days over ten quarts of urine. In fifteen days his weight had gone down to 127—a loss of almost sixty pounds.

From that time he slowly gained weight, up to 154 pounds of solid flesh, although the dropsy did not entirely disappear for several weeks, the ankles being the last to become normal. The

albumin in the urine persisted for nearly the two months he was under my care, but finally disappeared. Mr. Parks, seven years after this treatment, is living in Long Beach and is quite well.

No case that I remember shows so emphatically as this one does, the great benefit of rest while on the milk diet.

Another case almost as instructive is that of Mr. S.—, of Iowa, who being attacked by a slight stroke of apoplexy, went to the same sanatorium in Michigan of which Mr. Parks had been an inmate. Mr. S. knew that his arteries were in a diseased condition and this condition had no doubt caused the ruptured artery in the brain.

He took the usual fast for about two weeks and then started in drinking milk, exercising vigorously every day, according to the system in vogue there. In less than forty-eight hours he suffered a second stroke which paralyzed his right arm and affected his speech—a result I should have expected under the circumstances, as the fast could in no way have strengthened his blood vessels to

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CHAPTER XIV.

EXERCISE

A COURSE of milk diet alone does not insure a person forever against future illness or the encroachment of old age, but it certainly tends to do so when combined with right living, and by right living I mean correct eating, drinking, working, thinking, sleeping, breathing, and exercising. Of all these, the last is by no means the least; for many people it is the most important of all.

There are many useful books and periodicals devoted to exercise and physical culture, and I advise all my patients to keep up their interest in the subject by studying them, for it is easy to drop back into the old habits of inactivity and weakness. I cannot fully cover the subject in this work but there are some points that I will speak of, not always mentioned in exercise instructions.

THE OBJECT of all exercise should be to improve the circulation of the blood, increase the breathing power, and develop organic vigor in those vital parts of the body on which our well-being depends.

Exercise simply to build up big muscles and to do imposing feats of strength is largely a waste of vitality.

In exercising any muscle, we also exercise the brain and nerves, because they control the muscles, and when we get tired, it is because the nervous apparatus is tired, not the muscle itself.

When we decide to make a muscular movement, the brain sends an impulse over the nerve or nerves extending to the special muscles involved, ordering the muscles to contract. As a muscle in contracting uses up a certain amount of food carried by the blood, the artery supplying the blood to the particular set of muscles in use becomes enlarged or dilated in order that the necessary food and oxygen may reach the part. This itself is a muscular act, the little involuntary muscles in the walls of the artery being controlled by the

sympathetic system of nerves. After the muscle has been working, the vein leading from it to the heart carries a larger volume of blood containing the waste matter created by the muscular effort. The brain itself requires more blood when engaged in manipulating the muscles, just as it does when engaged in any purely mental process, for tissue cells in any part of the body cannot be active without necessitating a supply of blood in excess of the amount ordinarily sufficient to nourish the part.

So in muscular exercise there must be also nervous exercise. Just as the muscle grows larger, stronger, and firmer by exercise, so the brain and nerve cells become more efficient in the way of rapidity, acuteness, and precision in the execution of the movements. And muscular effort, by throwing into activity a different portion of the cerebrum, and causing a greater flow of blood in perhaps little used channels, may relieve conditions like worry, anxiety, insomnia, nervous exhaustion, and even pain.

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There are many different systems of exercise, and probably they all have good points, but whatever system is used, especially where no apparatus is required, it must be kept in mind that to be of any benefit real exercise must be taken. That is, the muscles must be firmly contracted, and the brain kept occupied with the matter in hand. It will be of little use to flop the hands back and forth in a languid manner, while the eyes are gazing out of the window, and the brain making plans for the day's work, or something else.

Throw energy and concentration into the movements; they need not necessarily be made rapidly, although rapidity is a factor in some exercises, but contract the muscles to the utmost limit. The alternate contraction and relaxation of the muscles is what drives the old blood out and pulls in new, and the greater the concentration the more efficient the movement. Make the limb or portion of the body being exercised as rigid as possible. In the arm movements, especially the overhead ones (and these are particularly useful because bringing into play muscles that are otherwise little

used) leave the hands open so that the muscles of the forearm will not be much affected. These movements should be concentrated in the upper arm, shoulder, neck, chest and upper back. Taken in this manner, they are of the utmost benefit to the chest, neck and spine. *A few moments' exercise of the arms in this manner, stimulates the circulation in the great blood vessels in the neck, and along the spinal column into the brain, and particularly brings into activity the great nerve centers which lie along this tract.*

After patients have finished the resting part of the treatment, they dress and sit up an hour or two the first day. This is usually enough where patients have been in bed several weeks, because the muscles, although big and firm, are unused to exercise, and they tire easily the first day.

As soon as patients begin to be up and around, the length of the bath is decreased a little every day, until only a short, ten or fifteen minute bath is taken. Instead of finishing up with the water quite warm, no more hot water is added, and,

when the short bath is reached, a cold sponge bath, or shower, can be used after the warm bath.

The second day the patient is up, a short walk can be taken, and every day afterward the exercises are increased, and the time in bed decreased, until only the necessary time for sleeping is spent in bed.

Two or three days after stopping the complete rest, start in on the following exercises and take them every morning and night. They should be done standing in front of a mirror, with very little or no clothing on. The exercises are simple, and few in number, so as to be easily remembered, and not take too long in execution. It is better to do a few exercises twice a day regularly at home, than to go to a gymnasium two or three times a week and work hard for an hour or two.

All these exercises can be made as hard as desired by simply increasing the tension, or rigidity of the muscles.

EXERCISE NO. 1.—Stand upright before the mirror, arms down, palms facing forward. Breathe deeply and regularly. Make the muscles

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pletely filled. Then relax. Always inhale through nose with mouth closed. Repeat same number of times as Ex. No. 1.

EXERCISE NO. 4.—Stand upright, arms at sides, palms inward. Make rigid muscles of arms, shoulders, back, sides and abdomen. Bend body at waist line sideways to left side as far as possible. At the same time bend right elbow and bring hand up into armpit, closing fingers. Relax momentarily and straighten up. Repeat to other side. To be done five times.

EXERCISE NO. 5.—Stand upright, arms extended sideways, palms up. Make arms and neck as rigid as possible, and raise hands straight over head, without bending elbows. Return to starting position and relax. Repeat same number of times as Ex. No. 1.

EXERCISE NO. 6.—Stand upright and raise arms sideways until hands are above head. Then bend over forward until finger tips touch floor as far as possible from feet. Gradually straighten up, raising hands with palms facing toward body.

As you assume perpendicular, rotate hands outward until palms are facing forward.

This, like No. 3, should be made a breathing exercise, exhaling as the body is bent forward, beginning to inhale as body comes up, and expanding chest as much as possible at the moment you rotate hands out. When the expansion is as complete as possible, hold the breath as you raise arms sideways as far as possible, and commence exhaling as body bends over, etc. To be done slowly five times, allowing eight to ten seconds to each complete movement.

I have given principally arm exercises, because it is the upper part of the body that stands in greatest need of development, and these movements markedly help the breathing, and also are beneficial to the brain, and nervous system in general.

The body bending exercises are particularly useful in constipation, but should be done by everyone. All these movements assist in maintaining the poise of the body, and tend to gracefulness and agility in men or women; old or young.

The man of forty-five would be in greater demand by employers if he would keep up his strength and quickness, and brush the cobwebs out of his brain by vigorous daily exercise. He who is slow of speech and movement and unwilling or unable to stand an occasional "rush" in his work, will likely be superseded by a more alert and active employe.

Age is no drawback, but inefficiency is.

For the lower limbs, walking is good exercise, when properly done, with the head up, the chest expanded, and the limbs swung vigorously and not dragged along. Running is still better and helps immensely to improve the lung capacity. If outdoor running cannot be practiced, a good substitute may be found in the room by dressing in a light costume, or none at all, and going through the motions of running, but dropping the feet in the same place all the time. Rope skipping is another strenuous exercise that can be practiced in a room.

Handball is excellent, but if you have no court get a light, hollow rubber ball which you can

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CHAPTER XV.

AFTER TREATMENT

ALMOST all patients who have taken the milk diet under my personal direction, have asked me what they should eat afterward; how they can be sure of holding the benefits gained on milk.

The permanent results of this treatment are invaluable, and I believe better than those obtained by any other method, and permanent cure is what is wanted in every case, and not simply temporary improvement while taking the treatment.

While there is a great apparent improvement in all patients taking the diet, yet it is a fact that many of them often have to wait until ordinary habits and diet are resumed before they realize the full benefit gained.

All persons taking the milk cure properly will find their physical condition better, perhaps, than

it ever was before. The circulation is active, digestion perfect, and all the functions of the body working well. There is no good reason why these satisfactory conditions should not be retained on a return to ordinary life.

It is impossible to give one set of rules that will fit every case, on account of variations in the individual, such as age, habits, condition of teeth, financial circumstances, location, previous disease, etc., but I can give here certain general directions which will no doubt be helpful, comprising as they do the observation of this class of patients for thirty years.

Most people have some idea of what caused their previous lapse from health, and they should avoid the former errors.

One very common source of ill health is improper breathing, and breathing impure air, day or night. This condition must not be returned to.

Another very important thing to avoid is heavy clothing. No matter how good the circulation, or how perfect the regulation of the body heat, if thick, heavy, tight fitting undergarments are re-

sumed, there is little chance that the natural animal heat will continue to be generated as freely as before. The warm clothing obviates the necessity of producing heat within the body, and the oxidation of the blood becomes less perfect because it is not necessary to use, or burn so much oxygen. The stomach does not make as much blood, therefore cannot digest as much food. The food, if not digested, becomes a tax on the system, the appetite is interfered with, and the general vitality lowered.

On the other hand, with light clothing, and open mesh underwear, the circulation in the skin will be more active and assist in retaining the body heat; oxidation and metabolism in the body will be promoted; a larger amount of food assimilated, and more air respired.

People will put on clothing, and more of it, every time there is the slightest suspicion of being cold, or even if the skin becomes cool, not appreciating the fact that cold is one of the best stimulants we have for the circulation in the skin. And, while quick to add clothing, they are slow to quit

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hands will be warm as soon as the system is accustomed to the change, and his general health better.

Keep the skin active by frequent baths. Friction baths, using a dry, coarse towel, or a brush, are excellent, and can be taken every morning.

Many people do not have the facilities for a complete bath every morning, but everyone, I think, can go over the upper part of the body with a wet cloth or sponge, and follow this with a friction rub, until the skin is dry, warm, and reddened.

In those subject to low blood pressure, subnormal temperature and generally weak vitality, it is of the utmost importance to take the measures described above.

The towel should be long enough to grasp one end in each hand and draw it back and forth over the front, back and sides of the chest, under and above the arms, and around the neck.

A warm water bath is necessary once or twice a week, and a daily sponge bath, or rubdown of all

the body usually covered by clothing, helps to keep the skin in order.

In regard to losing the weight and vitality gained on the milk diet, I think my long and peculiar experience has taught me that there are several ways of doing it not usually thought of. Nervous and anemic people are advised by their physicians to avoid overwork, worry, sexual excess, too close confinement, irregular meals. They probably know that they should have good, plain food, exercise, regular hours for sleep, frequent baths to keep the skin in good order, sufficient water to drink and as much fresh air as possible.

But there are other ways of losing. One of the greatest causes of nervous and digestive troubles is reading.

Yes, reading. Many people have expressed surprise when I said this, as it had not occurred to them. People are so accustomed nowadays to get all their ideas from printed matter that no other source is looked for, but it will be a long time before the daily newspaper informs its purchasers that reading may be bad for some of

them. Do you expect the weekly story paper, or the monthly magazine, to tell you not to read too much? Will the publishers of the thousands of new novels that come out yearly ever print on the cover: "Do not read this book unless your eyesight is perfect, your nerves under good control and your digestion normal?"

Perhaps the optician or the oculist should tell you the truth, but if they do, they may injure their best friends. If it were not for the daily newspaper, spectacle shops would not be opening up on every city block, until they are almost as common as dry goods stores.

Analyze the act of reading. You look at a little, crooked mark, a letter. You find a group of them, a word. You see a number of words combined to make a sentence. Overlooking the defects of English spelling, certain letters close together stand for a word, and the words arranged in different ways, convey ideas through the eyes, to your brain.

In the brain the storehouse of memory is called on to compare, translate and store away the new

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per, the varying distance from the eye, and the changing light.

Few people have perfect sight, and it is not always possible to fit glasses that will entirely correct the vision. And a pair of glasses that fit you well one day, may not be suitable the next, on account of changed conditions of the system or fatigue of the body.

Near work, such as reading or sewing, is what makes nearly all the trouble with our eyes, and, according to a great specialist, eyestrain is responsible for very many ills of the body. Reading is really a wonderfully complicated act, and calls for a very large supply of blood to the brain. This blood must be drawn from other portions of the body as soon as we begin reading, and as the act of reading is usually performed while the body is quiet, there is no incentive to the heart to take on extra force, and therefore some portion of the body must suffer for lack of blood.

The part that suffers the most on such occasions is probably the digestive system.

To sit down and read immediately following a meal is very likely to bring on indigestion, if there is the slightest tendency to that trouble. A large amount of blood is always needed in the stomach, liver, intestines and kidneys, after a meal, to furnish the necessary digestive juices, carry off the products of digestion and eliminate the waste matter.

I have many times cured an inclination to constipation by simply telling the patient that he must not read within an hour after a hearty meal. Too many people eat breakfast, and then sit down to wade through many pages of a morning paper. And, perhaps even a greater number, after a heavy meal in the evening, usually sit down and read.

Many business men and women eat a hearty mid-day meal, and immediately return to eye-straining work, such as reading, writing, accounting, or other clerical work, with the usual result of causing more or less indigestion. They think they cannot spare an hour, or even half an hour, after their meal to permit digestion to get a start,

but they do not stop to think that there is another way to avoid trouble, and that is to omit the noon meal, or, at least, make it so light and simple that the mental work will not interfere with the digestion.

An important aid to health in many cases is a correctly fitted pair of glasses or spectacles. It is wise to have the eyes tested after taking this treatment, because the eyes undergo changes as well as everything else, and glasses that were used previously may cause eye strain afterward on account of being too strong.

Illustrating a very common way of losing vitality, I quote from Health Culture: "Most women and some men are addicted to the talk habit. Talking uses up more nerve force than almost any work in which a human being can engage; yet women who are nervous, weak and incapacitated for work will indulge in excited and wholly needless conversation by the hour and fancy themselves doing nothing—resting! Mistaken but well-meaning friends visit the invalid for an entire afternoon and extract more vitality

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It is a mistake to order people to drink several pints of water daily, whether they want it or not. Water may be just as indigestible as any other food, in excess.

The first drink in the morning should be taken anyway, even if not thirsty. But during the day it is better to take frequent small sips of water, rather than overload the stomach. Beneficial results accomplished by taking regularly and often spoonful doses of water in which inert pellets have been dissolved, are due, I believe, to the fluid entirely.

The stomach can be gradually accustomed to taking water in increasing doses, and will assimilate it.

A glass of water half an hour before meals stimulates the appetite in a healthful way, and the meal is better digested. So also, the glass an hour after the meal helps to carry the digested food from the stomach and into the circulation.

If there is any tendency to constipation the water drinking will generally prevent it, and

especially if a little fruit juice is added to the water. Lemonade is a good drink, but the "bracers" dispensed at the soda water fountains should be avoided. Ice cold drinks of any kind are a poor thing to put in the stomach, and equally detrimental are the very hot drinks that many people take.

When it comes to the question of food I am inclined to be rather liberal in my views, and do not lay down hard and fast rules, except, perhaps, for the former rheumatic patients, where I advise against a resumption of meat eating on general principles. But some of them are eating meat occasionally, and none of them have had rheumatism since taking the treatment.

Many of the patients are vegetarians, but some of them believed in that before taking the treatment, and still lacked health.

Of late years the patients who have been using a diet of mostly natural, or raw foods, have all kept in good health, and I have come to believe more and more in this kind of a diet.

With milk and eggs, cream and cheese, nuts, fruits and vegetables, bread made from whole wheat, rye, oats or corn, and butter, anyone should be able to select a bill of fare.

Cabbage, beets, turnips, carrots, radishes, spinach, green corn, onions, chives, tomatoes, celery, lettuce, and cress are all more digestible raw than when cooked, and have a better flavor. Combinations of these vegetables ground up in a chopper, together with sweet potatoes, or nuts, or fruits with various kinds of dressings composed of olives and olive oil, lemon juice, yolk of eggs, cream or milk, make perfect food dishes, taste good, and are easily digested.

The "Steinfeld" or "Saxon" food chopper grinds all kinds of vegetables, fruits and nuts, and saves all of the juice, which is probably the most important part.

The "Enterprise" fruit and jelly press, No. 34, is a larger and better machine, which can be used so as to separate the juicy parts from the coarser residue.

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eggs, and I believe they afford more nutriment and energy.

A good way to prepare eggs without cooking is to beat up the egg with a little salt, then add two tablespoonfuls of cream, beat again, and set the bowl in a pan of hot water. When the egg mixture is well heated, but before it sets, or makes custard, take it out of the hot water, and serve at once, with bread.

There are some persons, even after taking the milk diet, who cannot use milk as a drink with other foods without noticing a costive effect, but they all, I believe, can take milk alone, or milk and fruit, or bread and milk, and make a satisfactory and easily digested meal. Bread and milk suppers are a favorite with some of my former patients, who are past eighty and have no teeth. Bread and milk and fresh apples make a good combination. Any bread to be used in milk should be slightly stale, never fresh and soft. Whole wheat or graham bread is far better than the white bread made from patent bolted flour, which contains little but the starchy part of the grain.

There is a way to take milk for one or two meals of the day that will not cause trouble, either with the stomach, or bowels, even if you have to use Jersey, or other rich milk. Fill a glass half full of the milk, and add hot water of a temperature that will bring the mixture to about 110 degrees. By using a pint of milk this way, or even a pint and a half, for breakfast, you have a very satisfactory meal, and it will not interfere with your noon meal, but you must not take any other food with it, especially starches or eggs. The only thing that can be taken sometimes, is a raw apple, or other rather acid fruit.

For supper, I can recommend the same mixture, using as much as a quart of milk with the water.

The legumes, beans, peas, lentils and peanuts afford valuable nitrogenous food. Green peas are excellent ground up, seasoned and slightly heated. Adding milk or butter improves them. Green corn "in the milk" is good served the same way. Raw peanuts are liked by many people better than the roasted ones.

Uncooked wheat may be used in several ways. Many children know how to chew a spoonful of wheat up until the starch is all dissolved by the saliva, leaving the pure gluten as a gum, which can be chewed all day, as the alkaline saliva has no digestive effect on it. This kind of gum has the merit of being really nutritious, and will stimulate the flow of saliva and assist stomach digestion as much as any of the "pepsin" compounds with indigestible chicle which are so extensively sold.

Hard northern wheat is the best kind, and it may be made into a very palatable dish by soaking for thirty-six hours, changing the water two or three times to prevent it souring. It is then so swollen and soft that it can readily be eaten with cream, or honey. It may be warmed before using. This is a sovereign remedy for constipation. Rye can be used in the same way and is generally regarded as more laxative than any other cereal. Flake rye, or rolled rye, is a good breakfast food, but most people prefer to cook it about fifteen minutes.

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Milk and sour milk are prepared in various ways to render them more easily digestible. It is well, in this connection, to remember that it is possible to give the stomach too little to do, and that a continuous feeding of pre-digested foods may weaken that organ.

I never advise the use of sweet milk as a drink with meals, but certainly buttermilk and sour milk can be used, in moderation, with good effect. If buttermilk is eaten with a teaspoon, it is not apt to cause any trouble with a meal. Most every person, even dyspeptics, find buttermilk, and sour milk, digestible, and even helping the digestion of other foods.

The best way to prepare buttermilk, or rather, sour milk, is to take the fresh, warm milk, and put it away in a glass fruit jar, in a warm place. If the weather is cool, or the drink wanted soon, place a teaspoonful of sour milk in the jar, as a starter. In about twenty-four hours the milk will be coagulated, or "clabbered."

Now empty the contents of the jar into a bowl and beat up with an eggbeater, until liquid and frothy, when it is ready to drink.

Junket tablets to coagulate sweet milk can be bought at grocery stores, and many useful recipes come with each little box. With their aid most delicious and digestible dishes can be made from milk and eggs without cooking.

No matter what food is given the stomach, it makes an effort to digest it, and nearly always succeeds with any simple, natural food; but combinations of various classes of foods render the stomach's work more difficult. Professor Pawlow's researches have thrown great light on the subject of gastric and pancreatic digestive secretions. He showed that each kind of food ingested was instrumental in causing the secretion of digestive juices especially adapted to that food, but when several kinds of food were taken at the same time, a stomach had to be in very good order to make gastric juice suited to all.

To this fact, no doubt, is due the origin of numerous mono-diet cures.

Perhaps one of the oldest of these is the so-called grape cure, which has been and is still used in various parts of the world. The method of giving this treatment varies in different places. Usually the patients go to the vineyard and live out doors while eating several pounds of grapes daily. As high as ten or twelve pounds can be taken, but the usual daily allowance is two to four pounds. In some cases a small amount of coarse bread is added to the fruit. The diet is quite lax-ative, and has been considered excellent for di-gestive disturbances and consumption. In some places the custom is to swallow the seeds, while in other localities this is not advised. The skins are usually, but not always, rejected. The sore-ness of the mouth frequently caused by this diet is relieved by rinsing the mouth with cold water containing a little bi-carbonate of soda. A dis-advantage of this cure is the fact that it is only available at one season of the year.

Another remedy is the apple cure, which is now available at almost any time of the year.

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milk diet, the exclusive meat diet gives very little heat to the body, and people using it require artificial heat in the room, and hot water bags in the bed to keep them warm.

None of the above named foods contain in themselves a well balanced ration for the human body, and sooner or later, the diet would have to be changed to prevent starvation.

Some writers claim that eggs are a perfect food, but certainly we cannot do with eggs what we can with milk alone. An egg contains splendid food material, but it is primarily intended for the propagation of the species, while milk is secreted purely for food purposes and by an animal closer to the human race than the bird family.

Luigi Cornaro, who lived in Padua, (1467-1566) had ruined his health by excesses, and adopted, when forty years of age, an abstemious diet of twelve ounces of solid food and fourteen ounces of fluid. His health rapidly improved and continued good until he died, almost a centenarian. He published his First Discourse on the Sober Life when 83 years old, an addition to it

when 86, a Third Discourse at the age of 91, and the Fourth Discourse, on the Birth and Death of Man, when he was 95 years old.

I quote from his writings:

"It is certain that habit, in man, eventually becomes second nature, compelling him to practice that to which he has become accustomed, regardless of whether such a thing be beneficial or injurious to him."

. . . . . .

"Coming, then, to that evil concerning which I propose to speak,—the vice of intemperance—I declare that it is a wicked thing that it should prevail to such an extent as to greatly lower, nay, almost abolish, the temperate life."

. . . . . .

"It is this craving to gratify the appetites which has allured and inebriated men to such a degree that, abandoning the path of virtue, they have taken to following the one of vice—a road which leads them, though they see it not, to strange and fatal chronic infirmities through which they grow prematurely old."

"For there is a remedy by which we may banish this fatal vice of intemperance—an easy remedy, and one of which every man may avail himself if he will; that is, to live in accordance with the simplicity of Nature, which teaches us to be satisfied with little, to follow the ways of holy self-control and divine reason, and to accustom ourselves to eat nothing but that which is necessary to sustain life."

. . . . . .

"The unbounded virtue of this is, that that which I eat and drink—always being such as agrees with my constitution, and in quantity such as it should be—after it has imparted its invigorating elements to my body, leaves it without any difficulty, and without ever generating within it any bad humors." . . .

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Pulse		Blood Pressure		Weight	
Date	No.	Date	Amount	Date	Pounds

RESPIRATION, PULSE AND TEMPERATURE RATIO

Respirations	Pulsations	Temperature
18	80	99 F.
19 (plus)	88	100
21 (plus)	96	101
23	104	102
25 (minus)	112	103
27	120	104
28 (minus)	128	105
30	136	106

ARM	FORE-ARM	CHEST		WAIST	HIPS	THIGH	CALF
		LARGE	SMALL				

MEASUREMENT BLANK

Suitable Houses for Patients on the Milk Diet

A Herd of Pure Bred Holstein Cattle

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PAGE

Bed 27
Biliousness 70
Bishop, Prof. 205
Bladder, Inflammation of 18, 186
Blood Circulation 73, 82
pressure 75, 76
Boils 72
Bowel Trouble 94
Breathing 111, 247
Bright's Disease 17, 75, 181, 189, 198
Bronchitis 75, 158, 169
Buttermilk 71, 103, 135, 165, 190, 266

C

Cancer 191
Castor Oil 142
Catarrh 70, **156**
Cathartic Medicines 163
Chlorosis 184
Chyle 16
Circulation of Blood 73, 82
Clock 31
Clothing 247
Coated Tongue 107
Cocaine Habit 71
Cold Feet 98
Colitis 71, 179
Constipation 42, 70, **122**, 161, 255
from overeating 105, 128
Consumption 71, 75, **149**
of the Bowels 96
Cooking 115
Cornaro, Luigi 270
Cottage Cheese 135

PAGE

Cough 150
Crises 71, 72, 172

D

Danger of Hemorrhage..... 153
Dates 96
Defecation 122, 125
Diabetes 18, 103, 189
Diarrhea 18, 95, 125, 178
Dilated Stomach 177, 226
heart 186
Dilators 147
Dizziness 161
Donkin, Dr. 17
Dropsy 18, 86, 185, 189, 230
Dyspepsia 70, 105, **106**
Dysentery 18

E

Eczema 70
Eggs 262, 270
Einhorn, Prof. 116
Enemas 131, 138, **146**
cold water **139**
Eruption on Skin..... 71
Examinations 214
Exercise **234**
active 133
effect of 237
object of 235
passive 133
Exophthalmic Goiter 78
Eyeglasses 254
Eyestrain 253

F

PAGE

Facial Paralysis 202
Fasting 42, 46, **137**, 170, 189
Fast Pulse 77
Fat 93
Feces 107, 124, 136
  amount of 92
  color of 140
Fermentation 121
Fever 77, 85
Fibroid Tumor 187
Floating Kidney 182
Food 259
  cereal 117
  laxative 128
  mixed 82
  predigested 114, 116
  raw 259
Fresh Air 25, 112
Fruits 42, 109
  laxative 128

G

Gallstones 71, 145, 198
General Debility 71
Generative Organs 188, 225
Goiter 78, 87
Gout 169
Grant's Hygienic Crackers..... 119
Grape Cure 268
Gravel 198
Graves' Disease 78
Growth 83, 223

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L

PAGE
Lactic Acid Bacilli.....165, 168
Laxative Seaweed 144
Legumes 263
Liquid Petroleum 142
Liver Diseases 16, 71
Locomotor Ataxia 194
Long Beach, California..... 171
Low Blood Pressure.....75, 76
Lungs 80, 88, 150
cavities in 152
Lymphatics 93

M

Malaria 71
Massage 102, 114, 132
Measurements 47, 88
blank 275
Meat Diet 269
Medicines 82
Milk, Amount of.....36, 47
asse's 15
buttermilk 71, 103, 135, 165, 190, 266
camel's 15
can 30
carrying 70
choice of 38
cold 56
curds 49, 55
digestion of 54
freshness of 41
Durham 38
glasses 30, 52
Holstein 38, 72

PAGE

how to drink 53
in cold weather 67
Jersey 38
long course of 66, 68
mare's 15
method of warming 57
odor of 108
on mixed diet 104
pasteurized 36, 37
preserved 37
salts 41
skimmed 17, 18, 40, 58
sour 135, 165, 266
sterilized 36
taste of 107
temperature of 56
warmed 56, 101
warming 57
working on a milk diet 67
Mineral Water 129
Mitchell, Weir 19, 175, 226
Mixed Foods, in Disease 82
Morphine Habit 71
Mucous Membranes 156
Muscles 89
of alimentary canal 91, 123
relaxed 64, 222
sphincter 123, 131

N

Nausea 216
Nervous Prostration 20, 70
Neuralgia 16, 71
of the heart 196

PAGE

Neurasthenia 71
Nosebleed 155
Nuts 265

O

Odor from Skin.....99, 175
Oertel's Treatment 182
Organs of Generation.....188, 225
Ox gall 144
Oxygen 27, 111, 112

P

Pain 217, 236
during menstruation 188
in kidneys 78
Painful Menstruation 187
Pancreas 120
Paralysis 198
agitans 194
Parks, Aubrey 230
Pawlow, Professor 267
Pellagra 191
Pepsin 115
Peristalsis 124
Peritonitis 216
Perspiration 28, 98, 133
Petroleum Oil 142
Piles 71, 127, 226
bleeding 141
Pimples 70, 72
Pleurisy 70
Popcorn 109
Preliminary Arrangements **25**
Psychology of the Milk Cure.....**213**

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T

PAGE

Talking 227, 256
Teeth, Decay of..... 45
Thirst on Milk Diet..... 109
Thyroid Gland 194
Tobacco Habit 71, 204, 209
Tomato Cure 269
Tuffnell's Treatment 182
Typhoid Fever 177

U

Ulcer of Stomach..... 71
Ulceration of Bowels..... 71
Urinals 30, 187
Urine 79, 180
in Rheumatism 175

V

Various Diseases **177**
Ventilation of Bedroom..... 113
Vomiting 216

W

Water Drinking 109, 138, 257
Weighing 47
Weight, Increase of..... 99
loss of 103, 185
Wheat 264
Wilcox, Ella Wheeler..... 68
Wrinkles 70, 94
Writer's Cramp 88

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WILL BE ASSESSED FOR FAILURE TO RETURN
THIS BOOK ON THE DATE DUE. THE PENALTY
WILL INCREASE TO 50 CENTS ON THE FOURTH
DAY AND TO $1.00 ON THE SEVENTH DAY
OVERDUE.

MAY 6 1933

JUN 12 1933