HEALTH EDUCATION

BY DR. J. J. MIDDLETON Provincial Board of Health. Ontario

Or. Middleton will be glad to answer questions on Public Health mas ters through this column. Address him at the Parliament Bldgs.

That there are different vitamines is

Ill-health in various forms, and certain definite diseases can be prevented shown by the different diseases that in canoes by way of the Georgian Bay if more attention is paid to the kinds result when certain foods are lacking and French River, across Lake Nipisof food we eat. This is becoming in certain essentials. Take for in- sing, down the Mattawa and the Otmore and more clearly understood and stance the case of beri-beri, a disease tawa, and if they go to Montreal, down appreciated as a result of recent that is very common in certain east-studies on what are known as acces-ern countries where rice forms the Bay Company officers in North Bay sory food-products or "vitamines.",

diseases, such as rickets in this country, and beri-beri in the East, result. volves not only the removal of the long as there is a sufficient variety of foods, and the food in its na- kernel known as the "silver skin," tural state there is little danger of which contains the vitamine. any such disease developing. But when the variety is limited, or the natural this country is infantile scurvy, behave been impaired or lieved to be due to the absence changed through boiling, heating or or deficiency in a diet, of a vitamine preserving, as in canned foods, then it with well-defined antiscorbutic prois that deficiency diseases may make perties. Infants, fed for long periods exclusively on condensed milk or pre-served foods, have been shown to their appearance

Errors in diet often result in stomach troubles, due to over-eating or the sometimes suffer from a form of use of too many meats and starchy scurvy, with hemorrhages under the foods such as potaties, bread, etc. Other errors of diet include a too free an infant is brought up entirely on use of foods fried in gravy, or of sauces, candies, etc., which often produce indigestion.

boiled or sterilized milk, a small quantity of grape, orange or lemon juice should be administered daily. In

It is not, however, with over-eating this country scurvy is seldom or with indiscretion in diet that this article deals. It is rather with the or among crews of ships on long voynature and ingredients of the food ages where the diet is of the tinned used as regards the presence or ab- or canned variety almost exclusively

sence of vitamines in its composition. It has also occurred in construction The question is:-What are vita- camps in this country where canned I will answer in a somewhat goods form the chief articles of diet round-about way:

Science for a long time has be- tables are not easily procured. This lieved that the essential composition vitamine is also deficient in of food that maintains life consists of vegetables that have been dried, or carbohydrates, fats and proteins in even kept for long periods without certain proportions, with due admix-ture of salts and water. Though this ture of salts and water. Though this is theoretically correct, modern recess should be short, and the vegesearch on metabolism has shown that tables not allowed to soak long. The a pure diet of carbohydrates, fats, pro-sooner the boiling is finished and the teins, salts and water is not sufficient vegetables removed the more nutrito maintain health. Something else tious they will be. must be present, although by comparison it is infinitesimal in amount, and in fresh milk has been one of the this something is described as a vita- chief objections to the wholesale pasteurization of milk. However, by ex-

A professor at Cambridge who has posing milk that has been previously dene much work on this subject, re- cleansed by filtration to a temperature cently fed a number of rats and puppy not exceeding 158 deg. F. for a short dogs on an artificial diet of protein, period, the vitamine in the milk is not fat, starch and sugar; and by carefully destroyed but only slightly impaired. dogs on an artificial diet of protein, watching the animals he found that This cannot be avoided, however, and they ceased to grow, although the am- the deficiency is more than counterount of food they consumed was actu- balanced by the greatly increased purally more than what was necessary to ity of the milk after pasteurization, On adding and the destruction of practically all maintain normal growth. a small quantity of raw, fresh milk the harmful bacteria that the milk to this diet a marvellous improvement might have contained. in the health and growth of the animals became evident. The improveis investigated, the more apparent it
ment was not due to the lact-albumin becomes that their absence or dehe was suffering from constipation growth was obtained from protein the diseases of metabolism which are to other mothers." and ash-free extracts of the milk solids, and from yeast, in exceedingly been difficult to account for in human at 25 cents a box from The Dr. Wil This Cambridge beings. professor therefore came to the conclusion that there was some other essential factor in food, in adding to the lials that make up a house, but it is protein, fat and sugar, that is essen-tial to growth.

a very necessary part. Vitamines, I have seen many things similarly are an infinitesimal part of Too beautiful for words;

The next question is "Are there the amount of food necessary for the more vitamines than one?" Yes, up maintenance of health and growth in Birds. to the present there are three kinds the individual, but without these ac-

(1) The Fat Soluble A, vitamine, not thrive. The small fraction of vitapresent in fresh milk, butter, animal mines usually yielded by articles that

Soft as the clinging fingers

(2) The Water Soluble B, or anti-- the way of finding out their exact na-

(3) The Water Soluble C, or anti- that vitamines are in themselves nu- Now I am oldscurvy vitamine present in fresh tritive, but they produce co-ordination

fruits, vegetables, etc. Nor are those carrying on the re- body is able to adjust itself to carry

searches by any means certain that on life and maintain health under these three are the only ones. Baths by Order.

varied conditions and surroundings. ly made daily baths compulsory, much In the near future baths on board many of the passengers, some of

of metabolism.

Every day during a recent voyage to bathe. If they protested they were This sudden attack of cleanliness is seized and scrubbed, free of charge, due to the fact that a steamship of the holland-American line possesses a which consisted of stewards, servery particular physician who used to geants-at-arms, and a few of the more be with the United States Public intelligent immigrants.

Health Service. After inspecting the The fact that no diseases broke out

immigrants in his boat he immediate- during this voyage speaks for itself,

With the Boy Scouts.

other day when he heard of the plans the First Penetanguishene Troop is making for its summer outing. It is one of the most interesting enterprises yet attempted by Ontario Scouts and takes the form of an ex-pedition from Penetanguishene down to Ottawa and perhaps Montreal by the route followed by Champlain and in 1615. The boys will make the trip chief article of diet, and where polish- and Mattawa are endeavoring to se-On account of the absence of these substances many so-called deficiency of the kernel of the grain with the diseases, such as rickets in this countries of the substances many so-called deficiency of the kernel of the grain with the diseases, such as rickets in this countries of the grain with the diseases, such as rickets in this countries of the substances many so-called deficiency of the kernel of the grain with the distance of these diseases, such as rickets in this countries of the substances many so-called deficiency of the kernel of the grain with the distance of the substances many so-called deficiency of the kernel of the grain with the distance of the substances many so-called deficiency of the kernel of the grain with the distance of the substances many so-called deficiency of the kernel of the grain with the distance of the substances many so-called deficiency of the kernel of the grain with the distance of the substances many so-called deficiency of the kernel of the grain with the distance of the substance of the substance of the kernel of the grain with the distance of the substance of the kernel of the grain with the distance of the kernel of the grain with the distance of the kernel of the grain with the distance of the kernel of the grain with the distance of the kernel of the grain with the distance of the kernel of the grain with the distance of the kernel of the grain with the distance of the grain with the grain realistically historical as possible. husk but also the outer lining of the

At the Victoria County Boy Scout Rally held in Fenelon Falls on Victoria A type of disease more heard of in Day the 1st Fenelon Falls Troop captured the George Beale 800 yard pa trol relay race trophy which is one of the big incentives to Scout athletic work in that part of the province. In the other field day events, Fenelon Falls captured five first prizes and three seconds, while Lindsay took home four seconds.

from

outer layer of the long bones. Where

and where fresh meat, milk and vege-

The fear of destroying the vitamine

tremely small fraction in the mater-

ture and composition. It is improbable

By this means the

The Scout Movement "keeps mov ing." Grimsby had one troop last fall. Since then it has grown so large that it has been found necessary to reorganize it as three separate troops un der a District Scoutmaster, Mr. J. A M. Livingston. And that is not all. because two whole patrols of boys who came from Beamsville have be come the nucleus of a new troop with headquarters in their own town. frew, too, has experienced a similar growth in Scout interest, and Kincardine has a troop which is also suffer ing from growing pains and plans are being made to divide it into two.

Preparations for the summer camps are proceeding wherever there are Scouts, according to Provincial Headquarters in Toronto. A recent double number of "The Trail," the Ontario Scout officers' paper, was devoted en tirely to the subject of Camping and

WHEN BABY IS ILL

When baby is ill; when he cries great deal and no amount of attention or petting makes him happy Baby's Own Tablets should be given him without delay. The Tablets are a mild but thorough laxative which re gulate the bowels and sweeten the stomach and thus drive out constipation and indigestion: break up colds easy. Concerning them Mrs. Desire Theberge, Trois Pistols, Que., writes: I am well satisfied with my use of The more this subject of vitamines or salts in the milk, as an equal rate ficiency is associated with many of and I can strongly recommend them The Tablets are so obscure, and which hitherto have sold by all medicine dealers or by mail liams' Medicine Co., Brockville, Ont. Mortar is comparatively an ex-

Miser.

I have seen many things Twilights tremulous with mist-

cessory food products the body will

contain them is a serious difficulty in

I have known many things: I am a miser

MONEY ORDERS. It is always safe to send a Dominion Express Money Order, Five dollars costs three cents.

Allowing Pleny of Time.

thip may become compulsory for all steerage passengers. This knowledge clothes for months!

In the hear future baths on boats the passengers, some or parcel rost clerk whom had not been out of their turkey the postage will be a dollar and thirty cents."

The Poultryman-"Guess I'll start to be warm in the winter time!

to be warm in the winter time!

to be warm in the winter time!

to bathe I they protected they ward the steering passengers were invited him on four bits' worth of stamps. I expect he'll lose enough weight on the way to make that about right before

Ask for Minard's and take no other.

Dressed Like Adam.

In the wilds of the Chichihu dis trict of Japan live a group of mountainers clad only in the costume of Their existence was unknown until the taking of a recent census revealed their whereabouts.

Passing through the Crystal Valley, census officials were amazed to meet human beings, wearing long hair, whose only covering was leaves. They made no response when spoken to. Their chief occupation seems to very near the minimum. Do not stand be hunting with the bow and arrow and the making of charcoal, which they exchange in the neighboring districts for necessities.

It is thought that the ancestors of these weird folk were refugees of the Samurai class, who, defeated in bat tle hundreds of years ago, fled for safety to the lonely heights which surround the Crystal Valley.

Uruguay has about 1,600 miles of railroads, but only one tunnel. Sufferers from rheumatism should eat celery; while bananas are useful the case of those suffering from chest complaints,

PALE AND NERVOUS SCHOO! CHILDREN

Need Rich, Red Blood to Regain Health and Strength.

Many children start school in excellent health, but after a short time home work, examinations, hurried meals and crowded school rooms cause their blood to become weak. their nerves over-wrought and their color and spirits lost. It is a mistake to let matters drift when boys and girls show symptoms of nervousness They are almost sure to fall victims of St. Vitus dance, or drift into debility that leads to other troubles. Regular meals, out-door exercise and plenty of sleep are necessary to combat the nervous wear of school life. But it is still more im portant that parents should pay attention to the school child's blood supply Keep this rich and red by giving Dr. Williams' Pink Pills and the boy or girl will be sturdy and fit for school The value of Dr. Williams' Pink Pills in cases of this kind is shown by the statement of Mrs. Watson, Grand Falls, N.B., who says: "In the spring of 1919 my daughter Thistle, then 12 years of age, began to show symptoms of nervousness which developed into Vitus dance. She seemed to lose control of her limbs and at times every muscle in her body seemed to be twitching and jerking, and the trouble seemed to be growing worse. finally decided to give Dr. Williams Pink Pills, and the result was better even than we had hoped for, and she is now enjoying the best of health." You can get Dr. Williams' Pink Pills through any dealer in medicine

or by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams Medicine Co., Brockville, Ont.

Truth.

When I must die I shall not fear the going:

There will be daybreak somewhere a new dawn Spreading before me and new strength

bestowing, And I shall be no more an earthbound pawn.

There will be life enriching, pulses leaping, Vision unveiled before my eager

And I shall still be loving, learning, keeping The zest of life in some fair para dise.

have no fear that I shall be but blended

With Being infinite and undefined; Only the service of the body's ended I shall not lose my eager soul, my mind:

shall not lose my love, and you, O dearest,

Seeking your way, will meet once more my own And when you fear me farthest find

me nearest: All that is true, though each must go alone.

All that is true-but truth does not de ceive me; These poor wise words no shield of comfort make:

If it were you, and death did thus bereave me,-If it were you-were you-my heart would brook

Minard's Liniment Relieves Neuralgia

How Tall Are You?

Most men are quite positive as to their exact height and would become indignant if you questioned the accuracy of their statements in that respect, but, as a matter of fact, no man can say, unless he has just then been measured, exactly how tall he is at any particular time. If the original feasurement on which he bases his statement was made early in the mornhe has been crediting himself with too much height most of the time while he has not given himself all the height to which he is entitled if the measurement was made in the evening. This for the reason that all per-

sons are taller in the morning. The disks of cartilage between the the body is in a recumbent position. The effect in the case of a fairly heavy man of average height may amount to a half inch, and in the case of a policeman or postman who walks upon pave ments all day ,the difference in height at morning and night might amount to

three-quarters of an inch. These are facts worth keeping in mind if you contemplate a physical examination for some appointment requiring a certain height, and you are or walk much before the examination and take it in the early morning.

thirty to every 1,000 women.

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FOR THE PARTS

AUTO REPAIR PARTS

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Right Description.

Tenderfoot—"Gee, that dog has a long tail. It must be about three feet." First Class Scout-"Yes, that's his

Habit.

Maid (reporting)-"There's a man at the door with a wooden leg, mum. "Thank you, Maggie; we don't need

Right Description.

Poor Suitor-"Is it true that your ather has lost his fortune?" His Lady Love (sighing)-"Yes, all swept away, but you are left, dear!

Dividing It. A case came before a court involv the ownership of an eight-day clock. After listening to both sides the judge turned to the plaintiff: 'You get the clock."

"And what do I get?" complain the defendant. "You get the eight days," replied the judge.

Adding Class.

A family named Stubbs, which be came very rich during the war, purchased a stately home.

It happened that someone who had known them in less prosperous days was in the neighborhood, and thought he would call. He did so, and asked for "Mr. Stubbs."

The butler regarded him with a pe fectly straight face. "There must be some mistake, sir," he said. "This is the house of Mr. St. Ubbs."

Quite True.

A pompous manufacturer of machin ery was showing a stranger over his factory.

"Fine niece of work isn't it?" he said, when they were looking at a very "Yes." said the visitor. "but you cannot hold a candle to the goods we

turn out." "Indeed!" said the chagrined manufacturer. "What is your line?"

"Gunpowder." was the reply.

His Title. The nine-year-old son of a New York

loctor recently sought out his father and put to him this question: "Dad, do you know what nickname

they gave to Napoleon Bonaparte?" Now the father desired that his son should have the pleasure of bestowing this information; so he evaded the reply by an interrogatory on his

"What was it, my son?" Whereupon, to the great astonishment of the physician, the lad replied

very proudly: "The Little Corpuscle."

His Hearing Restored.

The invisible ear drum invented by magaphone, fitting inside the ear entirely out of sight, is restoring the hearing of hundreds of people in New York City. Mr. Leonard invented this drum to relieve himself of deafness and head noises, and it does this so successfully that no one could tell he is a deaf man. It is effective when deafness is caused by catarrh or by perforated, or wholly destroyed natural drums. A request for information to A. O. Leonard, Suite 437, 70 Fifth Avenue, New York City, will be given a prompt reply. advt.

Magic! Drop a little "Freezone" on an aching corn, instantly that corn stops hurting, then shortly you lift it right off with fingers. Doesn't hurt a

Your druggist sells a tiny bottle of "Freezone" for a few cents, sufficient to remove every hard corn, soft corn, or corn between the toes, and calluses

Salt mixed with starch will prevent it from sticking.

Forest fires benefit no one and they rob the workingman, the merchant, the farmer, and indirectly every citizen. Forest fies are fought not only in the bush, but in towns and cities. twenty-four vertebrae of the backbone When Canadians of town and farm yield considerably to the pressure due and forest are all determined to stop to the weight of the body when it is forest fires, then our forests will be erect, and expand themselves while freed from the ravages of this fiend.

ASPIRIN

"Bayer" only is Genuine



Take no chances with Warning! In Germany there are now only 813 substitutes for genuine "Bayer Tat-men between the ages of twenty and lets of Aspirin." Unless you see the Unless you see the name "Bayer" on package or on tablets you are not getting Aspirin at all. In every Bayer package are directions for Colds. Headache, Neuralgia, Rheumatism, Earache, Tocthache, Lumbago and for Pain: Handy tin boxes of twelve tablets cost few cents. Druggists also sell larger packages. Made in Canada. Aspirin is the trade mark (registered in Canada), of Bayer Manufacture of Monoaceticacidester of Salievlicacid.

OSEPH DROUIN, of Montreal with dyspepsia but six bottles of Tantac made a new man of him-Gained 35 pounds.



"I could hardly believe my eyes when I stepped on the scales after taking six bottles of Tanlac and found that I had actually gained thirty-five pounds in weight," said Joseph Drouin, 2194A St. Denis St., Montreal, who, for the past twenty-six years has been passenger conductor on the Canadian Pacific Railway and is well and favorably known along the line of his run between Montreal and Mount Lauriers.

"Before I started on this medicine I was in a bad way. For years I'd had to take my meals here, there and everywhere and, as the result of this irregular eating, my internal machinery got all out of working order. lost all desire for food and what little I ate would form gas and bloat me up until I could hardly breathe. came so nervous I couldn't sleep at all well at night and was often so tired in the mornings I didn't care whether I took my train out or not. I fell off twenty-five pounds in weight and became alarmed about my condition, for I had tried all sorts of mediwithout getting any relief.

"Then, one day I read a statement in the paper that decided me to give Tanlac a thorough trial. Well, I never would have believed any medicine could do a man so much good in such a short time. It quickly settled my stomach and gave me such an appetite that I could eat three good square meals a day and no longer have any trouble with indigestion or gas and I sleep so well at night, even when on the road, that I think it would take a collision to wake me up. I now turn the scales at two hundred and ten pounds, which is ten pounds more than I ever weighed in my life and feel better in every way than I have for a very long time. Tanlac is the best medicine I ever tried.'

Tanlac is sold by leading druggists

An Easy Thing.

Next to making his own mistakes the easiest thing in the world is to criticize the mistakes of others.

To clean a photograph wipe with a soft cloth wrung out in warm water and a little ammonia. Dry with another cloth.

NOTHING TO EOUAL



The first thing to do when you have an njury is to apply Minard's famous Linient. It is antiseptic, soothing, healing, nd gives quick relief.





UTICURA FOR THE DAILY TOILET

Use Cuticura Soap daily for the toilet and have a healthy clear complexion, soft white hands and good hair Assist when necessary by touches of Cuticura Ointment. The Cuticura Talcum is also ideal for the skin.

Soap 25c. Ointment 25 and 50c. Talcum 25c. Sold

ISSUE No. 24-'21.

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Let This Food Help You to Health

Sound nourishment for body and brain with no overloading and no tax upon the digestion, is secured from Grape:Nuts

It embodies the nutrition of the field grains, and it makes for better health and bodily efficiency.