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## SMITH's

# FAMILY PHYSICIAN; <br> COMPRISING 

THE NATURE, CAUSES, SYMPTOMS, AND TREATMENT OF DISEASES;

WITH INSTRUCTIONS FOR NURSINO THE SICK;

LIST OR POISONS : ANIMAL, VEGETABLE AND MINERAL;

With syiplous of poisoning, and the best remedies and taratyent; CQPIOUS TABLES OT PRESCRIPTIONS; 并XPLANATIONS OF \&CIENTIFIO TERMS, wo., \&o., de., COMPILED FROM THE LATEST AND BEST AUTHORITIES, ENOLIBH, AMERICAN AND FOREIGN;

VERIFIED BY MANY YEARS' EXPERIENCE.

BY

- W. H. SMITH,



## Toronto:

Printed for the Author by Huntrar Robe \& Co., 86 King St. 1869.

Errmand, according to the Act of the Parliament of Canada, in the year One Thousand Eight Hundred and Sixty-nine, by WilunaM Hengy Smity, in the Office of the Minister of Agriculture.

## PREFACE.

## "Mens asna in corpore cano."

In preparing a new work as a "guide to health," I have been influenoed mainly by the conviotion that such a work was very much required. Having travelled conaiderably during the last two years, and mixed much with the agricultural population, I have been concerned to nee that in a large proportion of cases, the health of the inhabitantes was not what it should be. Some of this deficiency may doubtless be asoribed to the vicissitudes of climate; some to hardships necossarily attendant on the labours and privations of first settlerts; but still more to a caceless neglect of those "rule of health," attention to pure aip pantiness, exercipe and food, that are absolutely necessary if we woul niffly life. Some of this arises fry $m^{\circ}$ ignorance, some from carelessness, and some from stinginess. Many men will allow disease to accumulate in their families for months, depending occasionally upen quack medicines, rather than send for a medical man. In many cases the medical man does not live conveniently, and they grudge the expense of the visits. . Of course, in a thinly settled country, like Canada, a professional man has a much smaller community to make a living out of, than if he lived in an old, thickly settled country. If a physician has to live on a population of five hundred families; of course his charges must be higher than if his practice comprised a community of five thousand ; that is, if he is to live at all. Another thing; in Canada, few pensons have more than a moderate income, and there is, as yet, no clase that can afford to pay medical men such remuneration as will enable them to do a great deal of work for nothing; as is the case with medical men in Fingland. When Lady Anne Coke (wife of the celebrated "Ooke of Holkam," afterwards Farl of Leicester,) was confined with her first child, the surgeon who attended her received a fee of five hundred pounds aterling, ( $\$ 2,500$.) The late Sir Astley Cooper
received one year in feen thirty three thoumand pound sterling, and I Believe the late Sir Menry Halford has received an much, while hundreds realize incomes ranging from 2000 to 5000 poundm nterling. Of course, under such circumstances, a profemuional man can afford to dovoto, and many do, a considerable time to gratuitous attendance on the siek.
"A little knowledge in a dangerous thing," was a maxim of the great Dr. Samuel Johnson; and certainly we occauionally ace the truth of the adage exemplified by poople who, knowing a littlo and thinking they know more than they do, act upon their knowledge either to their own or their neighbour's injury. Not long since a dentist having occasion to plug some teeth for a farmer, found one of them so menaitive that he considered it necemsary to insert a small quantity of morphia into the tooth, to deaden it before introducing the filling. "I suppowe," remarked the patient, "there's morphim enough in that bottlo kill a man." "Yes," was the reply, "enough to kill ten men." 'The farmer, pppeaking of the matter afterwards said, "enough morphis was put in his tooth, if he had swallowed it, to kill ten men." A fow weeks afterwards the mamo dentist had to fill some teeth for a young woman living at an adjoining farm. One of these was also mensitive, and morphia, (about a sixth of a grain,) was inserted. Some time after the dentist left, the morphia awallowed by the patient began to make her sleepy. The family she was living with, having heard the neighbour's story, of the "quantity enough to kill ten men," immediately concluded that the girl was poisoned, and that, " if they let her go to aleep, she'd never wake again." Therefore, the first thing they did was to make her ewallow nome mustard; by way of emetic; and then they kept her awake all night. Of course the girl was tired and sleepy, and they had considerable difficulty in keeping her awake, but the greater the difficulty the more they persevered. Twentyfour hours after the morphia was taken they sent for a young medical practitioner in the neighbourhood, who, having to ride three or four miles, of course. "must do something," so he clapped a blister on the back of her neck. Now the girl could not by any possibility have awallowed more than the eighth or the tenth of a grain of morphia, and as she was grown up, strong and healthy, beyond making her aleepy, it could have had no injurious effect ; and yet here was the poor girl, first vomited, then kept awake all night, and finally blistered, when, a good hap of two or three hours, in the first place, would have set everything to rights.
rling, and I ile hundrede Of courme, devote, and - sick. of the great truth of the inking they to thoir own ving occasion sitive that he phim into the $\omega$," remarked kill a man." ner, speaking his tooth, if he rds the same an adjoining it a sixth of a morphia swalmily she was antity enough poisoned, and " Therefore, stard; by way yourse the girl n keeping her red. Twentyroung medical three or four on the back of wallowed more whe was grown Id have had no ited, then kept of two or three its.

In compiling thin work, I have drawn upon all the bent authorities, adding thereto my own experience. I have encleavoured to elothe everything, an far as pomerible; in plain language. The various prencriptions given are thoe that have atood the temt of experience ; but I need nowreely romind my readers that the efficacy of medieines depends a great deal on their quality and purity.

A copious index will be attached to the work, and a sufficient glomsury of aciertific terms, with explanations of their meaning.

## A FEW HINTS TO THE READER.

In making up, or in getting made up, "preseriptions ordered in this book, recollect that the good effects thereof must depend, in the first place, upon the quality of the drugs, and secondly, upon their being prepared in a proper manner. When Mixtures are ordered, containing In-fusions-that is, substances infused in boiling water, (as toe is made), the article to be used must be the pure drug itself, not any pooder, which, if not actually adulteratod, will probably have boen made of an inferior quality of root or bark. For instance: Gentian Root must be the root slicid. Cascarilla bark or Pervivian bark or any other bark ordered, mast be the bark bruised in a mortar, not the powder. In making infusions, the water must be boiling hot when poured over the ingredients, and the jug must be covered over with a cloth, and set by the fire or on the stove, (but not so as to contiine boiling), for a couple of hours, and then strained through a piece of fine muslin; then bottiled, and kept well corked. When simple syrup is ordered, which is generally to improve the taste of the medicine, the same quantity of lump sugar. will answer the purpose. When brandy is ordered to be added to any mixture, and the very best cannqt be obtained, it is better to substitute half. the quantity of alcohol. Little of the brandy brought to this country being as pure 'as alcohol, if of proper strength, must necessarily be. When sugar is added to an infusion it may be mixed with the ingredients before the water is poured on thim, but all other additions, such as alcohol, brandy, spirit of Ammonia, or any other such substances are not to be added till after the infusion is strained off. Bottles containing spirituous liquids, or other volatile matter, should always be kept well corked.

Pills are usually made of three or five grains weight, but if any of the pills ordered are too large for the patient to swallow comfortably, they may be divided, and he may take two instead of one. Some people cannot take large pills.

Every family accustomed to making up medicine at home, should have "a pair of "Apothecaries'. Scales and Weights," and a graduated glass measure. The cost is but trifling and much greater accuracy is obtained. in weighing and measuring, and that in cases where accuracy is of importance.

Any preparation in which copper is used, as, for instance, pills made with Sulphate of Copper, must be mixed up with a wooden or ivory knife, or, in a Wedgewood mortar, as the contact of Iron or Steel would decomposa the Sulphate, and cause the Copper to leave the substance it was combined with, and attach itself to the Iron or Steel.

A valuable collection of prescriptions will be given in the course of the work, and it is to be hoped that proper precautions will be used in getting them prepared.

## SMITH'S

## FAMILY PHYSICIAN.

## 

I think it advisable to furnish the subscribers to this work with a list of such preparations as every family should keep in the house; they may be obtained from any rexpectable druggist, at small cost. These preparations will often be useful when a medical man is called in, as he may not happen to have with him such medicinee as he may wish to give. Medicinal preparations ahould be kept in bottlees, in a dry and moderately cool place, and kept well corked, so as to eiclude the air. The preparations given below are numbered, and when any reference is made to them in the body of the work, the mumber of the preparation will be given.:

The Carminative may be given at any time to young infants, whenever they suffer from griping in the bowels, which some children very fre quently do. The Oathartic mixture (No. 2) is intended for children under five years old, and the dose may be five grains or a small teaspoonful for each year of the child's age. The Cathartic powder (No. 3) is intended for all over five years, and the dose may be one grain for each year of the age.

## CABMINATIVE.

 or ivory knife, would decombstance it was
the course of ill be used in

CATHARTIC; NO. 2.
Powdered Rhubarb.............................Two Drams
Carbonate of Magnesia...................Half an Ounce
Powdered Ginger...........................One Dram.-Mix to

## cathartic, no. 3.


cathartic pilles, no. 4.
Socotrine Aloes.....................................Two Drams.
Powdered Jalap............................ One Dram.
Castile Soap..................................One Dram.
Oil of Cloves......................................Fifteen Drops.
Oil of Carraway............................................een Drops.-Mix and beat well togethèr. Half this may be divided into 24 pills, and the other half into 48 pills. One, two, three or four for a dose.


- -divide into. 60 pills. Two, three or four for a dose.
sedative pilis, no. 6.
Fxtract of Poppies.
Forty Grains.
Extract of Hyoscyamus......... ................Forty Grains.-Mix, and divide into 24 pills. Two or three to be taken at bedtime.


Astrinaent mituture; no. 8:
Prepared Chalk.................................Two Drams.
Powdered Gum Arabic.........................Two Drams.
Tincture of Catechu.............................Half an Ounce.
Aromatic Confection
Two Drams-Water sufficient to make half a pint. One or two tablespoonfuls for a dose.

In chronic Diarrhcea much benefit will be found from chewing Strawberry leaves. Those leaves that are full grown, but not too old, should. be gathered. They should be used several times a day. They may also

## gnntr's paymy physician.

be bruised, and an infusion or tea made from them. A quantity may be gathered when they are in perfection, and dried for future use.

FEVER MIXTURE NO. 9.
Carbonate of Potash..........................Two Drams,
Citric Acid
Dram and a half.
Tincture of Hyoscyamus.
One Dram.
Byrup
Two Drams.-Water
sufficient to make half a pint. One or two table spoonfuls to be taken every three or four hours.

COUGH MIXTURE, No. 10.
Extract of Poppies or Hyoscyamus
One Dram.
Antimonial Wine
Three Drams.
Ipecacuanha Wine
Two Drams.
Oxymel of Squills.
One Ounce.-Water to make half a Pint. A table spoonful for a dose. (Several more Cough Mixtures will be given in the Appendix)
A very good Cough Mixture for children may be made by covering.a new-laid egg with Lemqn juice ; let it stand till the shell is dissolved, then add two table spoonfuls of Honey, and stir it up till completely mixed. Two table spoonfuls of water may be added, with half an ounce of Ipecacuanha Wine or Paragoric. One or two tea spoonfuls for a dose.

TONIC MIXTURE, NO. 11.
Gentian Root, sliced
One Ounce.
Hops
One Ounce.
Bitter Orange Peel
Half an Ounce,
Cloves, bruised A. Quarter of an Ounce.

Loaf Sugar
Two Ounces.
Boiling Water.......................Two Pints.-Let it stand by the fire for two hours, then strain, and add a quarter of a pint of good Brandy; A tablespoonful for a dose, three times a day.

## The following articles should also be kept in the house.

A Bottle of Antimonial Wine.
A Box of Spermaceti Ointment.
Some Sticking Plaister, commonly called strapping:
Many people are fond of hunting over the bush or the fields for barks, roots or herbs. When I hear of any one doing so it always reminds'me of the late Mr. 'Justice Haliburton's remark of the Nova Scotians, that "they would spend three or four hours in trying to catch a horse; to ride a distance that they could walk in half an hour." So, some people will spend several hoursoin the bush, hunting a Slippery: EIm tree, that they may make mucilage of the bark, while in half an
hour, and at a cost of a penny or two, they could obtain all the Flax Seed they wanted at the village store.; It is high time we became ittle more civilized. Besides, it is only at certain seasons of the year that plants or portions of plants possess their full virtues. Roots should be dug up in Winter, or very late in the Fall, after the plant has died down; Leaves should be gathered when they are full-grown; and wher the whole of a plant is used, it should be cut just when the plant comes into blossom. For want of attention to these things, many spend their time uselessly. Many years ago, Canada drove a large and lucrative trade with China in the root of a plant called "Ginseng." It was a valuable trade to the Province, but some people, too anxious to get rich, dug up the roots at wrong seasons of the year, and hy thus sending a poor quality of root to China, destroyed the market; as, after a time, the Chinese, having been cheated in the quality of the root, would not buy any Ginseng that came from Canada.

## ON THE MANAGEMENT OF THE SICK-ROOM.


#### Abstract

"Nursing is half the batile:" No truer remark than this, regarding the treatment of the sick; was ever uttered. Vain are the care and attention of the physician, wasted his knowledge and skill, if his exertions are not seconded by the unremitting and sensible management of the nurse.

How often is a physician, on being summoned to a patient, struck with loathing and disgust at the smell of the room; and this, not by any means the necessary result of a want of means to order things otherwise, but the consequence of ignorance of the laws of health, carelessness, or a natural fondness for dirt.

One of the chief requisites in the sick-room is plenity of fresh air, without this, no patient-no matter what may be the disease, or what the season of the year-has "half a chance." In summer, the windows of the bedroom should be kept open; and, in; winter, the fire should be made in an open grate, if possible ; but, if this is not possible, and it is necessary to have a stove, the door thereof should be kept constantly open, with a fender in front to prevent the sparks from flying out, and the door of the room should be kept open, so as to cause a draught.

If the patient is confined to bed; both the sheets and the body linen should-if possible-be changed every day. Any little fatigue the patient may experience in the operation will be amply compensated for by the intense feeling of comfort from the change. At the same time, the bed should be shaken up, and the feet of the patient should be washed in warm water, and wiped thoroughly dry afterwards. If the weather is at all damp, a fire should be lighted in the room early in the morning, to dry the air, and get rid of any unpleasant vapours that may have accumulated during the night. Many people have a habit of burning, candle or lamp all night in asick-room, but this is not a good practice, and the gases given out by the burning material very soon spoil the atmosphere of the room; it is better to put the lamp or candle outside the door of the room, unless the room should possess an open


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he body linen - fatigue the mpensated for te same time, ont should be vards. If the n early in the ours that may re a habit of is not a good rial very soon amp or candle ossess an open
fire-place, when the lamp may be placed therein. When a light in kept in a room, it chould alwaya be ehaded, to that the patient may not 26 the light; am many persons are very apt to be kept awake by a light in the bedroom.
All slops, excrementitious mattor, and every thing eqee calculated to make unpleasant smells, should be removed as quiclly as possible from the bedroom, and from the house. Some people are terribly careless on this point ; they have no noses.
The matter of diet requires great attention. Sick people have very ffoquently very delicate and very capricious appetites They take a fancy to a thing, and, if they could have it quickly, would greatly relish it, but if they have to wait an hour or two, the inclination evaporates, and when it is ready; the desire for it is gone. Again ; many peoplo have no judgment, and will present a sick person with a mess, "ft," according to the old expression, "for a plough-boy." The very sight of such a quantity destroys the appetite, while a small portion of the same would have been taken and enjoyed.
Great attention should be paid to the instructions of the attending medical man, as more may depend upon a strict regard to his directions than the nurse or attendant may have any idea of f for instance, the physician may wish to put the patient ander the influence of an alkali, and may prohibit acids of any description. The nurse, or mother, or attendant, to gratify the patient, may give her picklos or lemondde, or some other sour thing that may completely neutralize the effect of the medicine; and, knowing they have done wrong, they will generally conceal the truth from the medical attendant.- Again, sick' people very seldom fancy greasy things, and attention should be paid to ekimming the fat off soups or broth before offering them to a patient. $\cdots$ Many people do not understand the difference between grease and gravi; they will call the pure grease that runs out of fat pork when frying grayy, whereas it is nothing but grease.
When cooling drinke are ordered for a patient, the nurse should see that they are really cool; as a very small quantity of cold liquid will quench thirst, and abate fever much better than a much larger quantity rendered warm and insipid by long standing in a room.
The room should be sprinkled occasionally, particularly when a patient has an infections disease; with a solution of chloride of socla or chloride of lime, taking care not to throw the solution over any coloured articles, as both of these solutions have the power to remove most colours. Camphor water is very refreshing, and the smell is liked by most persons. When the patient or her friends can afford it, lavender water may be used to sprinkle the room and the bed-clothes. Il is the most refreshing of all perfumes, and its smell is usually very grateful to the senses of the nick.
The sick-room should be kept quict. Many people, sometimes out of mistaken notions of kindness, ane constantly intruding on sick people, and that, too, on people for whom thoy do not care one jot, but not knowing how sufficiently to kill their own time, they frequently accomplish that object by halif killing some unfortunate (with whom perhaps?
they have no acquaintance) whom they worry with their visita. In making these remarks, I do not allude to those friends of the patient (if she is fortunate enough to have such) whose kindly care and sympathy make them ever. welcome, but to those bores, both mile and female, who intrude themselves everywhere, till sometimes, by the close of the day, the patient has been visited, worried and wearied by half the chatter-boxes in the parish.

Most sick people are fond of flowers.
When a patient is attended by a hired nurse, the friends should be careful to see that the patient realiy receives whatever is ordered, particularly where wine and other nice things are ordered, to see that they are actually consumed by the patient, and not by the nurse. Many professional narses are very kind, careful, and considerate, but human nature is weak; and I cannot allow any feeling of delicacy towards the good nurses to prevent me from giving this caution, as I have known the life of a patient sacrificed through the nurse herself drinking the wine which she should have given to her charge.

## CAUSES OF DISEASE:

Health consists in a natural and proper condition and proportion in the functions and structures of the several parts of which the body is composed. The standard of hoalth is not, however, the same in all individuals; that which may be hepalth to one may be disease to another. Tinus : the healthy pulse in adults averages from 70 to 80 ; yet there are some in whom 90 or 100 is a hellthy pulse. Some persons fatten on a quantity of food on which others would starve. The animal functions, muscular strength and activity, meryous sensibility, and the sensorial powers, vary still more in different individuals, yet all within the limits of health.

Causes of disease are those circumatances which essentially precede it, and to the operation of which its occurrence is due. In many instances these circumstances elude our observation. In many others, the true cause, if apparent, is combined with other antecedent circumstances, which have no share in producing the disease, and yet are liable to be mistaken for causes. These circumstances are to be sifted, and the true cause discovered, only by the attentive observation of large numbers of cases, in which disease is produced. Thus, it was long a matter of doubt whether the Itch could be engendered from filth, as well as from contagion; but, since microscopic investigation hiss discovered the existence of the Itch-mite, no doubt remains that this insect is the only essential cause of the disease.
The causes or circumstances inducing disease mey be intrinsic, or existing within the body; or they may be extrinsic, haxing their origin without the body. Extrinsic causes are very numerous; comprising all the agencies which can act upon the body or mind, such as temperature, air, moisture, food, poisons, mechanical and chemical influences, sensual impressions, \&cc., dc.

But the common causes of disease gre seldom of a decided and ponitive
heir visita. In $s$ of the patient y care and symboth male and ees, by the close wearied by half.
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character; they are often prement without discase ensuing, and they are known to be causes only because disease is observed to ensue in a greater number of cases when they are present than when they are absent. Thus, improper food is a cause of indigestion, and exposure to cold is a cause of catarrh; yet many persons eat unwholesome food without suffering from indigestion, and many are exposed to cold without taking cold. But those who do suffer from indigestion observe that they do so more after taking improper food; and those who arie afflicted with catarrh can. often trace it to exposure to cold. In some casee, however, where the predisposition to disease is sufficiently strong, it may, under certain cix. cumstances, become in itself a sufficient cause of disease ; thus, a person with a very weak stomach always has indigestion. So, likewise, exciting causes, if sufficiently strong, may produce disease without predisposition; thus, a person not predisposed to indigestion; may be pietty sure to get it, if he takes a sufficient quantity of fat, raw cucumber, or any such indigeatible matter. Take another example. A healthy person, living in a marshy district, may not get Ague until he becomes debilitated from any cause; such as cold or fatigue; then the poison will act. But, without his being thus weakened, if the exciting cause be made stronger by his sleeping on the very marshy ground itself, then the poison may act without predisposition.

Predisposing causes of disease may be divided into:

## Debilitating Influences, Excitenent, Privious Digrase, Present Diszase, Hereditary Conbtitution, Tempirament, Age, Skx, <br> - Occupation.

Debilitating causes of Predisposition are the most numerous of any; as we might expect from the fact that constitutional strength generally implies power of resisting disease.

These causes may be classed as imperfect nourishment ; impure air; excessive axertion of body or mind; want of exercise and sedentary habits generally; long continued heat; long continued cold; habitical intemperance with intoacicating liquors; depressing passions of the mind, such as fear, grief, and despondency.

Many are the instances in which numbers, as well as individuals, have escaped a prevalent disease, until depressed by some unhappy event or apprehension, and then they have fallen victims. It is a common remark, that, when a contagious or epidemic disease prevails, those who take most precautions frequently suffer, because they are timid and fearful, whilst the stout-hearted and reckless escape. During the first. Cholera in England, the Medical Officer of a Government Establishment, situated in a healthy part of the country, (himself an old Army Surgeon); had a terrible dread of getting Cholera; he,made up his mind that if it came in
the neighborhood he whould take it, and, if he took it he should dia. He took every precaution in his power to preserve the health of his own im. mediate vioinity; but, at length, one day he got some fiah that dinggreed with him, made up his mind at once that he had got Oholera and ahould dio ; and he did die, although there was not another case within mile of the placip.

## Excessive and repeated evacuations, either of the blood or of some secretion. Previous debililating diseases.

Excitiment--Excitement in many casees, or rather over-axcitement in apt to lead to mischief. Violent exertion make the muscles or their fancies peculiarly liable to rheumatic inflammation from the subseqnent action of cold and damp. Excesaive indulgence in a stimulant diuretio beverage, such as punch, renders the kidneys liable to inflammation or congestion on exposiure to cold.

Previous Dismase.-There are many diseases by which a person is more liable to be attacked after having had them once. Thus, a child who has once had croup is very liable to a return. Convulsive disorders such as Chorea, Hystoria, and Epilepsy are extremely apt to recur; and the longer they have existed, the more difficult they are to remove, and the more ready they are to reappear on the application of any exciting cause. Rheumatism, Gout, Gravel, many cutaneous diseases, Dropsy; Jaundice, and many others are of this class.

Dibeabe already existing in the bopy.-For instance, tubercles and other tumours, structural lesions of the heart and other organs, often induce irritations or obstructions of bloodvessels, which, if not themselves causing open disease, render them ripe for disorder from other causes. Thus, a persion on the occasion of violent bodily or vocal exertion, is seized with profuse spitting of blood, which causes his death; on opening the body many tubercles are found in the lungs, although there had been no obvious symptom of their existence before the violent effort,

Hereditaby TEndencoy to Diszasz.-It is well known that Scrofula, Gont, Rheumatism, Epilepay, Mania, Asthma, Blindness and Deafness run in families. But every child does not necessarily contract the disease; many appear to be altogether exempt. Sometimes a whole generation is passed over and a disease appears in a third. A person will have gont; perhaps for the first time, when he is forty or fifty years of age. . His son, if he lives very abstemiously, may possibly not have it at all, but, if he is a free liver, he will probebly get it on attaining the same age.

Temperanent.- The Sanguine Temperament is accompanied with clear skin and rosy cheek, an excitable pulse, quick movements and lively disposition. This temperament gives a disposition to inflammation, determination of blood and active hemorrhage. The Phlegmatic or Lymphatic Temperament is the reverse of the Sanguine; it occurs in those with weal pulse and languid circulation, cold extremities and pale skin. The liability is to watery fluxes, dropsy and other chronic affections. Thie Bilious or Melancholic. Temperament is gommonly met with in persons of darls complexion and gloomy disposifion. The Nervous Temperament predis-
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sanied with clear to and lively disammation, deteratic or Iymphatic those with weak akin. The liabins. The Bilious persons of dark nperament prodis-
ponen to those disordern termed nervous, much an hyatoria, nervous paine, apenms, do.
Aar.-Age many be divided into Childhood-or the age from infanoy to puberty-Puberty, Adult Age, and Old Ago. In childihood the funotions mont aotive are those which admininter to growth; the organe of diger tion and amimilation are tharefore linble to disorder : henco children aro liable to derangementes of the stomech and boweln, worme, remitteat fevers, de.

At Puberty the child springs, ás it were almost zuddenly from childhood into manhood. The change, however, is more apparent in the female than in the male siax. At the approach and commencoment of puberty the glandular aystem is extremefy liable to congestions and inflammationi, and it is about this age that so much mischief is dono by undue muscular exertionis and exposures to cold, damp and night air.

Adillt Age can hardly be maid to predispose to any diseases, unloses it be thowe arising from particular modes of life. It is commonly a period of steadier health, because the functions are more evenly balanced; ; but, if the mode of life be unfavourable, bad habits are apt to become established, and by their continuance to indace disease. Thus gout, gravel, rheumatism, indigestion, and various other disorders, are apt to occur in middle life, because the predipposition ty them is gradually engendered by some error, in diet or regimen, too slight to excite disease, but sufficient by accumulation to dispose to it, on the addition of an exciting cause.
As age advances such habits affect the organization, and accelerate those changes in the system, by which our existance is limited to a span of years. The changes which old age induces in the exterior of the body shows a failure of those functions which are active in youth. Instead of the muscles, fat and integuments being nourished in the equal proportions that give beauty as well as strength to the form in mature life, the muscles become thin and sinewy; fat becomes scanty, partial or in excesss; the integumentes are loose and wrinkled, or fat and flabby; the joints stiffen, and the gait lopes its firmness and uprightness. Old age is thus. attended with increasing infirmities and liabilities to diseases. The very strongth and activity that some functions retain, may, from their very partiality, endanger life, and their gradual and more equal failure degrades the physical and often the mental frame of man to a lower icale of existenoe, until he sinks into second childhood, dotage and imbecility.
SEx-The male sex is remarkable for the higher dovelopment of the muscular aystem, with a corresponding strength of frame; for the stronger impulses of the animal passions, and for a greater endowment of the reasoning faculty. These respectively bring with them a liabiility to suffer from diseases of the muscles, limbe, jointe, heart, and great vessels; from the evils contingent on undue indulgence of $p$ ion or appetito; and from disorders of the brain and its intellectual fuin. ns.
In the female sex, the predominant bodily functions are the nutritive and the sensitive; while the percoptive and instinctive faculties and moral emotions preponderate in the mind. Hence the greater proneness of females to changes in flesh and blood; to disordered sensation, sparma, convulsive and other affections of the spinal system ; and to the direct
and indirect consequences of the indulgence or thwarting of instinotive and moral foolingu.

Oocupation comprisen many circumstances already noticed under the heads of predisposing influencem. Thus nedontary occupations inolude want of exercise and nometimen impure air; laborioum employments operate as excesive exertion; other occupations may predispose to discase by the continued exposure to heat or cold which they occanion. Some employments require constrained postures, which, if insufficient to induce, may yet promote the occurrence of diseane; thus engravers and watchmakers are liable to affectionis of the head from holding the head low; shoemakers and tailows are subject to disorders of the stomach from their stooping forward at their work. In many other instances, occupations induce disease rather by exponing the individuals to the exciting causes, than by inducing a predisposition; but, the very circumstances, which in great intensity sufficed to excite discase, in a lower degree may only induce a disposition to derangement. Thus the slow introduction of lead in to the system, occurring in the occupations of painting, plumbing, card-enamelling and printing, may not causo colio until cold or irregularity of diet becomes an additional or exciting cause. The same remarks will apply to dry-grinding, needlepointing, leather dressing and other unhealthy occupations. An important element in the influence which employmente have in causing discane, is the time during which they are pursued; thus, an'occupation not in itself unhealthy, may become so when continued too many hours in the day ; and a work which is attended with risk, may be often safely undertaken for short periods with a dueamount of relaxation or diversion to another pursuit. By attention to this point, the injurious influences of occupations may be much lessened.

Amongst other causes of discase may be mentioned excessive use of intoxicating liquors and the consumption of adulterated and unwholesome food. The most disastrous consequences of intemperance are exhibited by the habitual drunkard, who, in proportion as he indulges in liquor, loses his appetite for food, and his power of digeating it. He then drinks and sitarves, and the disease which ensues comprises the exhaustion of inanition with the more direct effects of the alcoholic poison. Thus, in delirium tremens, the drunkard's disease, together with the permanent restless excitement of the irritated nervous system, whith adds more and more to the exhaustion, the weakness of body and mind is fearful, and in bad cases affects even the organio function, so that the pulse is very weak and frequent, the excretions scanty axd depraved, and the respiration is too imperfectly performed by the mivoluntary powers to permit sleep to ensue. This exhaustion must soon terminate in death, unless prevented by appropriate treatment; and this múst comprise, besides Opium (the common remedy), Ammonis and other stimulants to the circulation and respiration ; purgatives and diuretics to free the blood from the excrementitious matter that has accumulated in it; and fluid nourishment to repair its waste. Without. these adjuncte, Opium will not only fail to procure sleep, but its narcotic influence may extinguish the fiame of life.
Pernicious as fermented liquors are in their abive, yet these and other
adjuncta to food, when taken with oaroful moderation and diacrimination, often prove benefioial by aiding the digemtion whon it in weak, and by counteracting various exhaumting and depreming influencoe, which are frequently. arising out of the artificial condition and employmenta of society, empecially in large towne and cold climates. Total abotinence, therefore, is preferable to moderation, only because it in morally easier to practine, not becaumo it in more malutary in its phyaical effecta.

Alcohol may be obtained from any nubutance which containn sugar. All the different grains destined for the mupport of man ; corn of every dencription; emculent roots, potatoen, carroth, turnipn, beets; grass itself, an in Kamschatka; applem, pears, cherries, peaches, and other fruita; and even from milk. The Tartars and Calmucks obtain a vinous spirit from the distillation of mare's and cow's milk. Liquids do not intoxicate altogether in proportion to the quantity of spiril they contain, nor in the effect upon the constitution, for good or for ill, dependent always, upon the quantity, provided it is not excessive ; for instance, Champagne intoxicates very quickly. Now, Champagne contains but a amall portion comparatively of Alcohol, but this esicapes from the froth, or bubblen of Carbonic Acid gas, as it reaches the surface, carrying with it all the fine flavour of the wine. Wines containing the same quantity of alcohol, therefore, differ in their effects; indeed it is not only to the alcohol thoy contain that the injurious effeots of some wines are to be attributed, as Dr. Paris clearly shows that when they contain an excess of certain acids, a suppressed fermentation takes place it the stomach itself, which will cause flatulency and a great variety of unpleasant symptoms.

Disease may be excited by unwholesome artioles with which the food is adulterated. To this class of causes belong various poisons. There are some noxious matters occasionally mixed with food, which gradually produce deleterious effects.' Thus, salted provisions too long used will cause scurvy ; ergotted corn has been known to produce dry gangrene. Lead gradually introduced causes constipation, colic, paralysis, and atrophy (wasting away). Impure water, used as drink, is a common cause of disease ; containing decaying vegetable or animal matter, it may induce aickness; diarrhoea, cholera, and typhoid symptoms; hard waters, which are impregnated with some of the salts of lime, render the bowels costive, and are supposed to favour the production of calculous diseases and bronchocele ; brackish waters, containing saline matter, may induce dyspepaia and diarrhoea ; chalybeatex, containing iron; are constipating, \&c.

Many artieles of domestic consumption are sadly adulterated. In making bread at home, we use nothing but flour, water, yeast and salt. The bakers sometimes add potatoes, alum, magnesia and other substances, to give it a white appearance and impart lightness. Alum is largely used, not as an adulteration of itself, but for the purpose of enabling them to work up and whiten an inferior flour to mix with that of $\&$ better quality. Some of the adulterations of flour are made by the baker; others by the wholenale flour dealers. Some time ago a atatement was published in the English papers, by a gentleman who, whenever he visited Newcastle-under-line, Staffordshire, was invariably seizod with severe pains in the stomech; he suspected it was caused by the bread he had
eaten. Thin leal to an inquiry, and the bread upon analymin, was found to contain Plintor of Paria. The baker declared hin innocence; but, on nenrching the miller's premisen from whence the flour wan procured, a large quantity of this nubatance was found, which fed to hin being mulct of a connideralile sum in the shape of a fine.
"A ahort time nince," 'mayn a correwpondent of a Iondon periodical, "a friend of mine, a chemint in Manchenter, wa npplied to for a quantity of Fronels Clinlk, a apecion of tule, in fine powiler; the party who purchaved it used regularly noveral pounds a week; not boing an article of uaual aale in such quantity, our friend became curioun to know to what une it could be applied; on raking the wholemale denler who nupplied him, ho atated his helief that it was uned in fnoing Tea, (the last procen of converting binck tea into green), Ant that within the last month or two he had sold in Manchester upwards of a thousaid pounth of it. Our friend, the chemint, then institutod Cheries of experimente, and the result proved that n great denl, if ne ${ }^{\alpha}$ hil the common green tee used in this country is coloured artifeinlly. ${ }^{\text {as }}$. Theahlue used in forming the green is usually Prussian Blue, which in highly poisonous.
Dr. Lethehy stated, a few yeary ngo, that within the provious throe years, as miany na meventy cases of poinoning had been traced, in England, to tho colours used in fancy sweetmeats.

INPLUENCE OF TEMPERATURE AND VENTILATION ON HEALTII.
It in impury to over-estimato the importance of the influence exercised on the Iruman aystem by the temperature of the climate in which we live, both in and out of doors, and by the ventilation and drainage the want of ventilation and drainage of the dwollings in which wo lives A moderately dry air is usually the most healiny; and, if the temy ture is moderato, is most grateful to the feelings ; whereas, a damp at phere, particularly if accompanied by an easterly or northeastorly wind, is very trying to the system, particularly to persons who poessess a sensitive skin, or Ang liable to attacks of coughs and colds. It was long supposed that sevcr, (hther in winter was the most healthy, and so satisfied was the poputer, wom this point that "A green Christmas, a fat
 lection of healtbr been found to be the phe great thumber of deaths occurring in
 And, as far as observitions have been made in Canada, and the Northern States of America, the same rule holds good.

There can be no health without pure air. It is wonderful how little attention is paid to this circumstance, even by manytwhose means will allow of their adopting any measure that health or comfort may render necessary. In fact, in thousands of instances, the possession of increased means seems to have led to diminished health. Five and twenty years ago, most of the country houses in Canada, whether log or frame, were built with large open fire-places; stoves were scarce; and a roaring wood fire not only kept the room warm and dried the atmosphere, but the draft
lynin, was found neence ; but, on was procured, a hin heing mulet
ndon periodical, d to for a quanthe party who being an article oun to know to denler who supg Tea, (the lant within the linst housaind poundm of oxjerimente, mmon. green ten used in forming rous.
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influence exorlimato in which mold drainge hich wo lives, if the temy a damp at -easterly wind, pookesess a sensi$t$ was long supand so satisfied Christmas, a fat Since the colt ral, all this has hs occurring in all in Summer. d the Northern
orful how little tose means will ort may render on of increased $d$ twenty years or frame, were a moaring wood $\theta$, but the draft
 chimngyey whe rapours and unwholevome amollis. Of into years,
 then Ar, have almont dimppeared: the latter being replaood by
 warm. Tho honmet themeolves being built very much tighiter than formerly, there in little draf. Perwona nccustomed to nit many hours a day in themo hot, tight rooms, moon git mecuistomod to them, and feel chilly when the door is opmened, and a ruyh of cool, froesh air in aulmitted, but a permun coming from the open air foeln the room hot, unjlemanat, olowo and suffocating. People living in thewo hot, clowo momss moon begin to nuffer. in health. The skin becemes dry and yollow, and no one can havo helped. noticing how wonderfully provalent neuralgio pains in the head and tace havo become in Cnandn within the last fow ycarn, mainly caused by exposure to the intenso heat of stoven, and that varied by an equal exponure to the biting infuence of cold winds without.proper protection. A wintor or two since, a fine healthy young man called on me, complaining of intense pain in his hoed and jawn; he fancied it was toothnche, and was anxious to have two or three teeth extracted. On investigating the matter, I found he was occupied all day in the woods, in getting out timber, and, as long as he was in the open air, he suffored no inconvenience from his unpleamant visitor; but, whon he returned home in the evening, as soon an he got into the hot room, the attnek came-on, nometimen heeping him awate a good part of the night. Of course, in such a case as this, lowing the teeth would not remove the complaint.
Compositors in printing offices; living in close; hot, croms suffer much therefrom, and many of them have their lives sadly shortened in consequer's. Mruig our School rootens and other publio buildings are badly von "da, and when these are also over-crowded, as frequently hippens, the health of thotew who are compelled to froquent them, sufters accordingly. At the very motent $I$ am writing this, one of our Cahadian judges is laid up, and unable to attend to his duties, from the effect of exposise to the foul influences of an inwholesome atmosphere while presiding at tho Assizes in one of our Court houseet.
One of the medical practitioners in India, writing of the influence of over-crowding in producing Chalera, says: "The disease commits its greatest ravages in crowded ill-ventilated barracke, bazaars, densely populated towns, crowded school-rooms, native hute-into which there is but one opening, and that clowed at night. Whole families are sometimes swept away from oxposure to this exciting cause. At Juggernaut it is an annual visitaint. The town of Pooree contains 35,000 inhabitants, and the number of pilgrims sometimes amount to 150,000 . The inhabitants are usiually quite healtiy before the occurrence of the featival, which takes place in June or July. But immediately on the arrival of the pilgrims, and when the lodging houses are literally crammed with inmates, cholera suddenly breaks ont, and, in the space of a fow days, hundreds are cut off. "This," he adds, "is not an ococasional or incidental occurrence; at is an invariable one; and the disease which hass thus boen generated; as suddenly disappeart on the dispersion of the crowh."

In warming houses, many people make a strange, and unfortunately a very serious mistake. Some years since, some croahetty genius propounded the doctrine that a building should bo heated from the celing downwards, instead of from the floor upwards, unmindful of the fact that heat ancends, and that it will ascond, in spite of you, and also oblivious of the good old maxim, "keep, the feet worm and the head cool.". This individual, whoever he was, has had too many followers, and it is quite common now to enter a room, where the stove is not only too large for the space it is intended to warm, but the stove is even surmounted with a large drum, on a level. with a person's head when sitting down. The consequence is that the air near the floor is cold, and abont the upper part of the room fearfully hot; the natural result to those sitting in such tooms is cold feet and hot heads, followed frequently by colds, coughs, headuche, neuralgia, fevers, loss of teeth, and various other disorders. There can be no health without plenty of fresh air, and also plenty of daylight.
Drainage.-This is a point on which many people are terribly careless. Not only are many otherwise well-built and handsome looking houses placed in situations naturally unhealthy from a difficulty in draining them, but many, erected in positions where drainage is easy, are left almost to the efforts of nature. This, however, is not by any means the worst of it. Many people make a regular practice of throwing all slops and refuse just outside the kitchen door, where they are left to pollute and poison the atmosphere till cleaned away by those friendly scavengers, the ducks and pigs:
"The most efficient cause of dampness in the air is the permanent retention of moisture on or near the surface of the ground; as in low grounds in which clay prevails, and where water accumulates or is imperfectly drained off, und where evaporation is retarded by the shade of many trees or of high rocks or hills. But, independently of soil, a house may be damp from its 0 wn materials, which, as in those built of limestone or marble, are constantly impregnating the contained air with humidity. Wet weather and damp winds are less injurious causes of humidity, because less permanent, but their influence is often manifest during their continuance, and always most so in localities that are damp from other causes." So injurious are these damp winds considered, that in Lower Canada, it is quite common to see the outsides of stone and brick houses boarded up on those sides exposed to the Easterly winds.
"In districts where lime is obtainable, much benefit may be obtained in damp houses, by keeping large pans of quicklime in several apartments, especially those of the basement and ground-floor. This is an excellent precaution against malarious and infectious diseases; its utility has long been known in preventing meat from becoming soon tainted in a damp lander."
"To diminish the dampness of clay and marshy soils in the cimmediate vicinity of dwellings, much may often be done by an efficient system of covered drainage; by the removal of superflous trees and ghrubs; and, where practicable, by covering the surfaces which are most commonly wet? thty genius profrom the colling of the faot that ad also oblivious ead cool.". This and it is quite aly too large for urmounted with ing down. The abont the upper e sitting in such y colds, coughs, other disorders. 1 also plenty of
crribly careless. looking houses lty in draining $s$ easy, are left $r$ any means the rowing all slops - left to pollute adly scavengers,
the permanent ind; :as in low ates or is imperby the shade of of soil, a house o built of limetained air with urious causes of often manifest 3 that are damp sonsidered, that of stone and the Easterly ay be obtained rral apartments, is an excellent atility has long nted in a damp
the immediate rient system of d ghrubs ; and, commonly wets,
with light mand, gravel, brick and mortar rubbish, or some similar light, and porous material; which may form anartificial superstratum, and intercept the influence of the damp ground. The insalubrity of many low parts of London (England), especially in Pimlico and Westminster, has been wonderfully diminished by the latter expedionta." The effect of drainage in stopping the regular prevalence of Ague has been very conspicuous in many places in Canada; which formerly suffered much from this complaint; Chatham, on the Thames, and the eastern portion of the city. of Toronto; where Ague is now scarcely heard of, are prominent examples.

## INFLUENCE OF 8LEEP.

Different people require different amounts of sleep; the more the brain and muscles are exercised during the day, the more sleep is required. It is a curious circumstance thiat the lions, tigers, hyronas, de., in the Zoological Gardens, which in their wild state roam and feed ąt night and sleep. by day, when in captivity reverse this order of things, and feed by day and sleep by night. Man sleeps longer than any of the larger animals, but the great baboon oft chimpanzee, the organization of whose brain very closely resembles that of man, will talye his six or eight hours' sleep if undisturbed.

The power of intense cold in producing sleep is very great in the human subject; and nothing in the winter season is more common than to find people lying dead in the fields and the highways from such a cause. When Dr. Solander was crossing the mountains which divide Sweden from Norway, in company with Sir Joseph Banks and several other gentlemen, he warned them, saying, "Whoever sits down will sleep; and whoever sleeps will wake no more.". Shortly afterwards Dr. Solander was the first who felt an irresistable inclination to lie down, and one of his fellow travellers, Mr. Richmond, persisted in doing the same, declaring that " he desired nothing better than to lie down and die." Both lay down. Finding it imposible to proceed with them, Sir Joseph Banks and the rest lit fires with brushwood around them ; having dque which, Sir Joseph endeavoured to wake Dr. Solander; and happily succeeded; hut though he had not slept five minutes, he had almost lost the use of his limbs, and the muscles were so shrunk that the shoes fell from his feet. He consented to go forward with fuch assistance as could be given him; but no attempts to relieve Mr. Richmond were successful-he died on the spot.
People of delicate constitutions, in whom the circulation of the blood is languid, are more readily affected by extreme cold than the strong and robust. Some years since, when practising in the south of Illinois, I had, been spending the evening at the house of a friend. One member of the family, a gentleman in tolerable health, but not of very strong constitution, had taken a walk to the neighbouring village, only a mile and a half distant. As the evening. was very cold, and he did not return as soon as he was expected; the family became a little alarmed, and part of them started off to meet him. They had not gone far when. they found him lying by the fence, cold, stiff, and insensible. They
carried him in, and proper measures were adopted, but it was hours before he could be considered quite recoveri.
Both the respiration and the circulation are diminished during sleep; the pulse becomes slower and fuller. The vessels of the skin relax; and it has been proved that a person sleeping healthfully and without any artificial means to promote it, will during an undisturbed sleep in a given space of time, perspire insensibly twice as much as a person awake. The temperature of the body, of course; under such circumstances, falls somewhat below its waking standard. On this account, people more readily take cold asleep than awake. "Therefore," says Dr. Elliotson, "persons cover their heads before going to sleep; and when habit has not overcome the necessity for this, cold is continually caught from its neglect. A draught of air is far more dangerous in the sleeping state, and the back of the body appears less vigorous than the front, as a draught at the back is much more dangerous than in front." It is important, therefore; that during sleep the back should be well covered. Dr. Elliotson adds that "Agues are caught more readily if persons fall asleep." Some persons are more readily affected by cold when asleep than others, and some are so very sensitive that a trifling variation in the covering at night, and even sometimes in the daytime, will produce cold. I once know a young lady who had a habit of wearing a Coral necklace day and night. If by any chance she happened to take it off before going to bed, and forgot to replace it, she invariably took cold.

In severe winter weather, when the poor suffer much from cold, blankets are almost as indispensable to them as food. There is also one interesting and important fact connected with this subject ; which is that sleep promotes the cure of all diseases.

How much sleep is necessary for a human being in good health This must evidently depend a great deal upon the wear and tear to which the system is subjected during waking hours. Age, constitution, climate, occupation, \&c., must be taken into consideration. During the first three months of life the time of the infant is divided between sleeping and feeding. As the development of the nervous system, in particular, goes on with remarkable rapidity at this period, the more it sleeps the better. In extreme old age much sleep is also required. The famous Dr. Thomas Parr, who died at the extraordinary age of one hundred and fifty-two years and-nine months, latterly slept away the greatest part of his existence. Tall and bulky people are supposed to require more sleep than short and thin people; women more than men ; and all animals sleep longer in winter than in summer. In a state of health, during the central period of life, a person actively employed will require-according as the nervous system is more or less fatigued-from six to nine hours sleep. We are informed by his son-in-law, that Sir Walter Scott, both as a young man, and in more advanced age required "a good allowance of sleep," and he indulged in it, saying "h $\dot{\theta}$ was but half a man if he had not full seven hours of utfer unconsciousness."
Dr. C. J. B. Williams says that "children, up to the age of six years, generally require at least twelve hours of sleep, besides an hour or more
in the middle of the day. At about this age, the sleep at noon may bo discontinued, but the night aleep can hardly be abridged with advantage until about the tenth year, and then only to a moderate extent, until the period of puberty, after which it is generally proper gradually to reduce the period of rest to nine or ten hours ; and no farther diminution is expedient till the cessation of growth, when another hour or two may be taken from it." In more advanced life this extent of sleep is -not less serviceable where it can. be procured; but at this period the capacity forselep úsually diminishes, and wakefulness or disturbed sleep is a commo. mplaint of old age." "Females commonly stand in more need of ite cep han males, and during pregnancy and nursing, additional rest igtencualy demanded. In such cases, too, the loss of sleep is attended atid followed by peculiarly injurious results, manifest especially in the nervous system and general nutrition, in the form of mental dorangement, impaired vision, deafness, paralysis, palpitation, convulkions, tremours, / wasting, diarricoa, \&c. Persons convalescent from acuto diseases, or otherwise weakened and reduced, require and generally obtain more sleep than in ordinary health, and it is so efficient an influence in the promotion of recovery, that artificial means are sometimes properly used to procure it.
Much has been said and written about early rising; and there is no doubt that the natural time to rise is when the sun rises, but then the natural time to retire to rest is also when the sun retires-or at sunset, Many people, however, are so habit-ridden; that they insist upon getting up in winter and breakfasting by candle-light, merely because their fathers did it before them. "The laws of nature may be tampered with, but they cannot be subverted; we may step out of the paths she has prescribed, but we cannot go far beyond them with impunity. It needs scarcely any evidence to prove that the day was intended for exercise and the night for repose. That night cannot with impunity be converted into day, has been proved by a varicty of observations." Two Colonels of horse in the French army had much disputed, which period of the twenty-four hours was fittest for marching and for repose; and, it being an interesting question, in a military point of yiew, they obtained leave from the commaiding officer to try the following experiment: One of them, although it was in the heat of summer, marched in the day and rested at night; and arrived at the end of a march of six hundred miles without the loss of either men or horses ; but the other who thought it would be less fatiguing to-march in the cool of the evening and part of the night, than in the heat of the day, at the end of the same march had lost most of his horses and some of his men." Another remarkable circumstance, says at author, has been observed. It is moेre unhealthy to get up before thip sun has risen and burn candles uatil daylight, than it is to sit up by candle-light after sunset. This is confirmed by Sir John Sinclair, who pays': "I have no donbt of the superior healthiness, in the winter time, of rising by daylight, and using candle-light at the close of the day, inftead of rising by candie-light, and using it some hours before day-light aptroaches." Sleep is a provision of nature to restore the exhausted energís of the system,
physical and mental. When the nervous energy of the system is restored, the patient will usually wake of himself, and it is not advisable to wake him up unnecessarily.

Too much sleep, however, is debihtat...g. It weakens the muscular powers, and, in persons predisposed thereto, promotes the accumulation of fat.

There are times, however, in the lives of most people, when, from some cause or other, sleep is an impossibility. Ought narcotics to be taken in these cases \& Much will depend upon the cause, the nature and the persistency of the sleeplessness. In some cases it is desirable, and in others absolutely necessary tó produce sleep artificially, and zohen really necessary we should not hesitate. Thousands of young children, however, there is no doubt, are annually destroyed by narcotics The Spanish women are said to employ a more harmless method, and to put their children to sleep by gentle friction up and down the backbone.

## INFLUENCE OF FOOD.

It may be asked by some what constitutes food? Which question may be answered by asking another, what substance is there, animimal or vegetable, that has not at some time or other, or by some one been used as food! The English race at home consume mutton, beef, pork, veal, kid, game, poultry, fish, with fruit and vegetables of all kinds; washing them down with beer, cider, wine, milk, buttermilk or water. The Frenchman uses the same, with the addition of frogs and horse flesh; and generally substituting light wine, for beer and cider. The Russian consumes large quantities of train oil.- The Abyssinian fre quently takes meat raw, which after all the talk about it, is not worse that the European and American habit of swallowing oysters raw. The Australian Stock-keeper lives principally on beef and mutton; varied occasionally by a joint of Kangaroo; while the East Indians and Japañese live largely on rice. John Chinaman will make a hearty dinner on a dish of puppies, and a West Indian will feed equally well on monkeypie and parrots. Bear's flesh, rattlesnakes, snails, locusts, lizards, grasshoppers, seal's and whale's flesh have been occasionally used as food, while an Arabian will have no hesitation at taking a long journey through the desert, with no provision but a small parcel of Gum Arabic.

All kinds of theories, good, bad, and indifferent, have been started by different individuals at different times, respecting the feeding of the human subject. . Some recommend plain food, others luxurious; some, few dishes, others many; some that only two or three meals a day should be taken, while the hearty English farmer will take his five or six. It is a standard rule of health that food, if not properly masticated cannot be properly digested, yet many people will tell you they cannot sit long over their meals, they have woork to do ; and yet, these same individuals, after bolling a meal in ten or fifteen minutes, will sit half an hour, picking their teeth or smoking, before returning to their employment.

There is no doubt that a variety of food is most congenial to the
em is restored, isable to wake
the muscular sccumulation
e, when, from larcotics to be se, the nature it is desirable, tificially, and ads of young 1 by narcotics method, and own the back-
hich question ere, animal or ne been used f, pork, veal, kinds; washlk or water. gs and horse cider. The byssinian freis not worse srs raw. The utton; varied and Japanese y dinner on a on monkeyuats, lizards, sally used as long journey Gum Arabic. en started by eding of the rious; some, meals a day ce his five or roperly mas tell you they nd yet, these utes, will sit ing to their
human system, and I am aatisfied that if human beings had been intended to liveupon two or three articles, such a great variety of eatable things would never have been provided by the Almighty. In mont European countries people live as well as their circumstances will allow. This, however, is not by any means the case in Canada. Many people are far tog ancious to accumulate property, and will keep themielves and their families on improper or unsuitable food till their constitutions are irretrievably ruined, and then they resort for relief to quack medicines. In the old country, the poorer population in the country will live a great deal on fat bacon by way of meat; but then they generally have plenty of good cheese, and good beer, and in addition to this, each cottage has its garden, and a good supply of green vegetables the whole year round. The Canadian Farmer, on the contrary, even when well off, will not generally have green food more than three or four months in the year. He will live for a good part of the year on salt meat; with no vegetables but potatoes, and no beer, and frequently what he calls tea, is of the poorest kind. (Salt in excess irritates the stomach, retords digestion, and causes feverishness: with thirst. Accoiding to Liebig, salt impedes the deposition of fat. Animals will not fatten on salt food).

Now, to keep up the strength of the muscles, and the general tone of the system, requires a certain quantity of such food as can not only be swallowed, but as can be digested by the stomach. Meat to be digeetible and nourishing must be well fed, healthy, tender, and properly cooked. There is far too much tough meat, and far too many tough beefsteaks consumed in Canada. In Europe, a small portion only of the animal is cut into steaks; thave portions that are sure to be tender when cooked, and the ramainder of the animal is converted into stews or roasts. In Canada, on the contrary, the butcher commences at the neck of the beast, and cuts away until he gets to the shank; cutting it all into steaks. Soon after I-arrived in Canada; I engaged apartments in a private family, I had my own rooms, and was to board by myself, but they were to supply e with food. The first diy they gave me a tough beef-steak for breakfast, and the same for dinner; the next day it was the same: tough beef-steak for breakfast, tough beefsteak for dinner. This kept on regularly for a week, when 1 asked if they could not stew the steak for a change, and I told them how to do it. They tried it once, but, I suppose the exertion was too great, and they never tried it again. After putting up with these fried steaks for a month, I got tired out, and left the meat untouched. I suppose they then thought a change necessary, and they gave me fried eggs and bacon for brealfast, eggs and bacon for dinner; next day, eggs and bacon for breakfast, eggs and bacon for dinner; and so kept on till I left the eggs and bacon untouched. Next day they took the hint, and returned to the tough beef-steak, and, when this in turn was untouched, to the eggs and bacon. So, I came to the conclusion at last, that they really only understood these two dishes, and, after eating: them for eight or nine months, I could stand it no longer, and shifted my quarters.
Man is by nature and habit an omnivorous animal, (that is, he consumes and requires a variety of food, both animal and vegetable); and,

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in general, his health in best maintained by mixed proportions and varieties of animal and vegetable food. The unhealithineese of many articles of food; even those supposed to be very nutritious, when taton alone, is sufficiently shown by experiments made by some of the French chemista. "They fed doga, geese, donkeys, and other animalk, on articles which are generally conaidered highly /uutritive, as sugar, gum, starch, oil or butter ; the animalos died with symptoms of starration almost as soon as if they had been kept without food. Even bread, When too fine, is insufficient for nutriment. A/dog fed on pure white bread lived only fifty days; whereas 'another/ fed with the coareest brown bread, was well nourished, and seemed capable of living to an indefinite period." The necessity of a proper combination of organic elements for the food of animals has long been shown by Dr. Prout, Who has pointed to Nature's food, mill, as the great type of all proper kinds of nourishment ; as it containg albumien, oil, sugar and water,'so all other kinds of food used for ordinary sustenance, ought to include binations of food others identical in composition, and, in fact, all comt Bread containg to sanctioned by custom do contain these ingredients starch, which is identical in gluten- which is vegetable albumen, and albumen and fat. Ant insuffienposition with sugar. Meat contains obsorved to cause the insufficient supply of fat in the food has been skinny, wrinkled and foltowing resuits: loss of flesh, the skin becomes passages, insufficient formation of bile, and con mucus in the various and feculent excretions, with diminution and consequently indigestion therefore, that moderately fat meat muist animal heat. It is plain, Exctsss of fat in the food will disorder the stomach most wholesome. causing heart-burn or sickness, and sometimes a bil its indigestibility, and vggetables, in fair quanitity, are healthys and besist attack. Fruita the pecurrence of gout and gravel. The D. and assist in preventing "Fruit is gold before breakfast, It must be borne in mind, however, that fruits are usually less appid." Europe than they are in America; and the fruits are usually less acid in people in Canada have, of eating sour and habit which so many young
Food may be excessive or deficient ind unripe fruit, is very injurious. should be taken must depend upoin in quantity. The quantity that must depend upon the amount' of bodily quantity required, and that necessary to keep the system up to a hy exertion and quantity of food masticated is easier of digestion, and nffthy standard. Food properly thian half chewed food, gestion, and py tospyore readily with ite essence, consume less food than consequentily people whe eat slowly require and Defective nourishmi hose who bolt it food, if long' continued may excite various disorders. Deficiency of wasting of all the textures, cxase general weakness of the functions, and blyod becomes thin, the gums ept those of the nervous system. The muscles become thin and flabby; spongy and bleeding; fat disappearas; ulcers appear; a state of scurvy is produced, which, when far advanced; is often incurable. The bad influence of poor living is mach more felt in those who are confined in cree habitations, than in those who are
roportions and nease of many us, when taken of the French $r$ animale, on suigar, gum, of starration Even bread, on pure white the coaresst living to an of of organio y Dr. Prout, of all proper and water', so t to include fact, all com ingredienth llbumen, and Ceat contains od has been kin bipcomes the various indigestion It is plain, wholessome. digestibility, nck. Fruits preventing roverb, that lat supper." less acid in nany young y injurious. tantity that and that ity of food d properly its essence, equire and
ficiency of ctions, and tem Tho lisappears ; en occurs; advanced, more felt to who are
exposed to plenty of freah, pure air ; and it is under such ciroumstances that the unhealthiness of some kinds of food; when taken alone, shown itself. Thus, oven bread, with meat or broth will not prevent the occurrence of scurvy ; but a sufficient addition of freeh vegetables provents this diseave from appearing. There is no doubt that, to the too prevalent custom in many country parts of Canada, of living so much upon sall meat without a corresponding proportion of green vegetables, may be traced the fearful loss of teeth by young people, particularly by the girls. "Fever, malignant dysenteries, and other disorders of that clase, have been the invariable attendants on all the great famines in Europe."
In regulating gur diet, it is advisable as far -as our means will allow, to select those articles of food that are the most nourishing, and the most easily digested. Meat should never, if the weather will allow of its being kept, be cooked too soon after it is killed. Fresh killed meat without exception, is always tough. Mutton, more especially in this country, where so much of the beef is tough, is more easily digested than almost any other meat. Fish; poultry, game are easily digested. Puddings, in Canada, are almost unknown, that is, of course, comparatively speaking. You may dine at twenty houses without seeing a pudding; nothing but apple or pumpkin pie, baked in a plate. The good, old fashioned, wholesome "suet pudding," so much in use in the old country, particularly as food for children, is seldom seen. Being composed of flour with beef suet chopped fine, and eaten with either sugar or $a$ little prèserve, it furnished most of the elements necessary to porduce good hedalthy flesh. As a general rule, too much tea is taken in ${ }^{-}$ Canada, and much of that little better than hot water. Tea, to be of any service as a beverage, should be of good quality, and mado of proper istrength. So, also, with coffee ; if not made strong, coffee, like poor tea, is mere hot water. As for the stuff sold and drank by many people as "Dandelion Coffee," it is most abominable trash.
It is the general custom, in this country, to take but three meals a day, but I am satisfied, both from observation and experience, that persons taking four or five meals in the day, not only have better health, but they actually consume less food. Many medical practitioners, as well as others, lay great stress upon the necessity of taking meals at regular hours; but all this is quite contrary to the laws of nature. Nature says: "Eat when you are hungry, drink when you are dry." People will say: "Don't eat now, it only wants an hour till dinner time, you "ll spoil your appetite." Well, is it not better to spoil your appetite, than to spoil the tone of your stomach $\boldsymbol{1}$. Shut up a horse in a stable, and feed him regularly three times a day, and he will dispatch his gallon of oats in ten or fifteen minutes, half of them unchewed, and consequenitly indigestible ; turn the same horse out to grass, and let him gather his own food at his leisure, and he will gipend half his' day in eating his food, piaking a bit here and a bit there; and a very little time will show, in the improved condition of the animal, the superiority of the natural over the artificial mode of feeding: No animal, unless forced thereto by the caprice or the necessities of man, will take its food at stated times, and confine itself to three meals a day. summer; something of courso depends upon habit, but boer will seldom dinagree with a healthy person; if it is good. Much of the beer sold in for any length of it of poor quality ; it is not strong enough to keep it is sufficiently fermented; connequequently drank too new, and before it is taken into the stomach; and in this way continues fermenting aftor cound boer, strong coffee is decideth way disagrees. Next to good, taken ; for breakfast it may be taken the best beverage that can be other times, according to the taken with sugar and milk or cream; at with or without milk and sugar . For the driner, it may be taken either it, chocalate is very nourishing. For those whose stomachs will bear For young childreñ, mill, bre corn meal and milk, rice puddings, suet milk, oatmeal porridge and milk, finely ohopped meat, will form the buet puddings, with a little gravy or all combinations of milk for food will articles of diet; but the value of mill, and that will mainly depend upon depend upon the quality of the In old age, as well as in infancy upon the quality of the cow's food. of digesting hard and tough food. having outlived his powers of digestion, late Dr. Kerr, of Northampton, solid food, had for the last few ygestion, and being incapable of taking pay, to furnish him with the only food his ife, two women in constant deed; second childhood. I do not he could digest. This was inchildhood. I do not know at what age he died.

## influence of air and exercise.

No one can be long healthy, if deprived of fresh air and sufficient exercise ; the term sufficient however, must be regulated by the health, habits and nature of the individual. Some persons have been accustomed from early youth, to walk several miles a day, or to take other active sons, of course, require in rowing, cricket, gardening, \&o. Such perthan those of a more delicate constitexercise to keep them in health, have been of a more sedentary constitution, or those whose occupations horse exercise is decidedly the character. To those who are fond of it, all good; swimming, if not contint ; walking, rowing and cricket are summer for those whose constitutioned too long at a time, is good in Skating, like dancing cannot be tons are strong enough to admit of it If people could be satisfied with recommended on the score of health. mischief would result from it ; but ing for an hour or so at a time, no satisfied with skating several hour when young and delicate girls, not or three or four hours at night, in the day, must also akate for two zero; who can wonder at the frequenth the thermometer perhaps near a girl, lightly clad, will dance throut eerious result . So with dancing'; return home, a little before daybroagh a cold winter's night, and then, known that threefourths. of the ceases perhapes several miles. It is well have their origin in these amusements of consumption in this country Excecsive bodily exertion of verionente. disease. The heart, excited to ims kinds is a common exciting cause of

## particularly in

 boor will neldom the beer sold in onough to koep rew, and before rrimenting after Next to good, se that can be or cream; at be taken either achs will bear
## idge and milk,

 little gravy or at the value of quality of the cow's food. and incapable Northampton, ble of taking $n$ in constant This was in-nd sufficient the health, an accustomother active Such perin health, occupationg fond of it, cricket are is good in dmit of it of health. a time, no girls, not te for $t w o$ haps near. dancing'; and then, It is well 8 country 3 cause of ined and
diatended, and ite fanction or eyon its structure, and that of the great vecieles, may be impaired in consequence. This is expecielly apt to happen if there be anything already imperfect in the structure of the organ, ite valves or vemelth and there are naturally very varioun degrees of perfoction and atrength in thowo parts.

The brain is particularly liable to puffor from violent exertion, expecially if joined with a atooping or constrained posture ; for its vessels aro not, like those of the limbe and trunk, supported by muscular preseure upon them, and the exatod heart can therefore send its blood into them with more force. Hence giddiness, noise in the earse, deafnens, defective vision, convulsions, palky, apoplexy, have been brought on by violent exertion.
The lunge are also apt to suffer ; for the blood being roturned to them faster than they can arterialize it, they become greatly congested; hence cough, shortness of breath, bleeding at the lungs, or inflammation of the lungs may ensue.
Other internal organs are sometimes disordered by the blood thrown or retained in their vessels by the pressure of external muscular action. Derangement of the liver, vomiting of blood, piles, \&cc, have been brought on by such a cause. The sharp pains or stitches felt in the sides or abdomen, on running fast, are commonly supposed to be in the liver or spieen; but more probably they are spasms of the intestines-temporary colic, produced by irregular pressure on them when overcharged with blood.
Some kinds of muscular exertion peculiarly effect certain organs. Thus, loud reading or speaking, or blowing wind instruments, especially tries the organs of respiration and the voice, and may cause hemorrhage, inflammation and various diseases of these organs. Excessive or rough riding or leaping may injuriously affect the kidneys and organs of generation. Straining to lift a heavy weight, or at stool, or ir' apy continued effort which implies holding the breath, endangers the structure of the vessels of the chest and brain.
Bodily exertion, long continued, may also cause disease by its oxhausting effects. In extreme degrees this exhaustion may amount to fainting, and even death ; short of this it may cause great weakness of muscles, and of the heart, with corresponding depression of other functions; hence arises the low typhoid fever which sometimes follows prolongued fatigue. In slighter cases, wa have giddiness, faintness, nausea, loss of appetite, indigestion, costiveness, and other varieties of injured function. Excessive fatigue may cause such an amount of sleeplessness as to bring the patient into a state almost resembling delifium tremens. Strong mental emotion is a common cause of disease. "Closely knit together as the mind and body are, it is not surprising that they should be ever ready to affect each other. The heart most remarkably suffers from such causes. Thus, a sudden shock, whether of grief, surprise; fear, or even jpy, may cause fainting, nay even death itself has ensued; and the expressions "frightened to death," and "killed with joy," are not always mere figures of speech. Sudden acute pain often causes

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fainting." Apoploxy, palay, inflammation of the brain, opilepay, and A piece of rery bad new by exceasive anger, terror, surprise and joy: A pieco of very bad nows frequently takem away appetite, or impairs bilioun attack or jaundicd. Excessing cuariation, frequently a cause of debilitys either of blood or of some secretion, is if the loss be great or and iden, it prediaposes to other diseases ; but, certain fulness of the heart, and blood-vensels is required for disir healthy functions, as well as for those of all the organs which they supply. If a moderate quantity of blood be suddenly withdrawn, or a large quantity and may be interrupted's action will be impaired, rendered irregular, to maintain its functions, the the brain not receiving a current sufficient. ness, accompaniod or followe may be fainting, with loss of consciousdelirium, convalsions, or by death by disordored function; palpitatiging. enlargement of the veins of the lower Lower mentions a case of extenseyt could not stand without fainting nntil extremitios, in which the pationt Inattention to the calls of nature is a prolifs were bandaged.the bowels are not emptied as frequently is source of disease; when accumulate in them, become offensive, and they should be, the froces come absorbed into the system and poiso the more fluid portions becoats of the bowels become ulcerated and the blood; frequently the common result of allowing the howele to diseased, and Piles are a very tention of urine has even a bowels to get and to remain costive. : Rorupture of the bladder has not unfrequs result. Loss of power or even neglect to empty the bladder when accumulation in that organ, over distentie gives the hint, will cause an The retained urine is liable to be partiall, followed by loss of power. giving a urinous smell to the breath and re-absorbed into the system, causing typhoid symptoms. The retained perspiration, and sometimes position; highly irritating and offensived urine is also liablo to decomcanse injury to the bladder, rapidly exten matters are produced, which neys. Checked perspiration is a well recogniz up the ureters to the kiding in colds, coughs, rheumatism, inf recognized cause of disease, resultAn artifioial or diseased dischargiammations and fevers: issue, or from an ulcer or diseacharge or secretion, as that of a seton or flow of an ordimary secretion eased membrane, or an unnaturally profuse established as to become habituril, as looseness of the bowels, if so long out great-risk of exciting diseage, cannot be suddenly suppressed withsulted from the sudden drying up of an oplexy has not unfrequently reThere can be no genuine hal or with old sore. says that "cleanliness is next to poditint rleanliness; an old proverb cleanliness is a prolific source of skin godiness;" and certainly a want of all those organs that sympathize with the skin fevers, and affections of

INFLUENGE OF CLOTHENG.
In a climate like Canada, there the changes of temperature are not rise and joy: e, or impairs $r$ bringe on a necretion, is iseasos ; but, diseares. $\boldsymbol{A}$ heir healthy upply. If a rgo quantity $d$ irregular, nt sufficient. conaciouspalpitatiping Pextonsien the patient
ase; when the freces ortions bemently the are a very tive. Roer or even times the cause an of power. e systom, ometimes o decom. d, which the kide, result-

Much of the sickness of infants is traceable to improper diet in the mother. Many women are fond of pickles, vinegar, and sour fruit, and many also accustom themselves to live too much on salt meat. The milk disagroes with the child, turns acid on its stomach, and produces milk disagreos with the child, turns acia on " its sho, or some ot that abomi-
gripes ; the mother then gives it "soothing syrup,
only very froquent, but aleo very great, too much attention cannot bo paid to koeping the body properly clothed, particularly in apring and aulumn, when the transitiones from cold to heat, and from heat hack
apain to cold, are very sadden. Flannel thould be worn next the akin all the year round ; and the feet should always bo kept warm. In akin Sof that, half tho population in country places allow their childrens ff Whown-up girle, to go about all the summer without shoet and stockings ; $a^{4}$ Ind sometimes when it is impossible for them to do so without taking cold. The consequences are coughs, colds, headaches, rheumatism, chilblaing, inflammation of the bowels and of the lunga, pleurisy, 8\%. In former days, when women went out of doora, they protected the hieni and face with a comfortable bonnet or hood; fashions have altered, and for some time past they have been satjusfied with a mere "make-believe," which leaves both head and faco exposed to the inclemency of the weather, both wind and sun. The consequences naturally are a harsh, dry, brown or yellow skin, eyes burnt out, wrinklod brow, red nose, and constant liability to attacks of neuralgia and headaches. Many people, with no excuse of poverty to plead, expose their children, or allow them to expose themselves (which is just as bad), when at home, to all changes of the weather, with insufficient clothing. An author, after alluding to the manner in which horses; sheep, and other animals change their coats, according to the season; continues: "The preceding facts are not devoid of instruction in regard to the dress of human beinge, why should learn to cover their nakedness under the guidance of experience and reasion, which may be better or worse than instinct, according to whether they are well or ill exercised. It argues little for the bonsted superiority of man's reason; if it do not guide him to means more effectual in resisting the hurtful action of extornal temperature, thin those instinctively possessed by the lower animals ; and yet, there can be little doubt that none of these suffer from cold, wet, and atmospheric changes, to the degree in which human beings do. In truth, reason and common sense are too frequently set anide by foolish habits originating in vanity, caprice, prejudice, indolence, ignorance, or some such evil infuence, and disease and infirmity are the penalties incurred by folly.".
In clasifying the diseases treated of in this, work, it will perhaps be most convenient for the render to diyide them into diseases of childhood, and diseases of groion people. Although to some extent, the one period may gradually glide into the next; still there are many complaints to which each period of life is more particularly liable than the one preceding or following it. Thus, Mensles is a disease of childhood, yet grown people are occasionally attacked by it.

## DISEASES OF CHILDREN.

nation to make it aloep. It in no wonder no many infanta die. One of the fint complainti mont commonly met with in young children, is-

## THRUSH, OR INEANT"S SORE MOUTH.

It frequently makee its appearance when the child in only a fow woekn old. When firtt noticed, it unually appears in little eore or whitiah spote about the corners of the mouth, or ingide of the lower lip; thene increase the inside of the gradually apread to the tongue, the roof of the mouth, caies the der tho cheeks, and sometimes extend to the throati. In some occationall turns of apen known to extend to the bowele. The eruption ed an unforotrable Wher or browiah colour, and this is considerto be hoqraur. The complaint is sometimes accompanied ty Doice is apt with paing in the bowels, and the stools are frequently green and slimy. The child also frequently vomits greenish matter, molling sour ; sometimes a little fever acco mpanies the complaint. In general, the complaint is trifling and unattended with danger, but in children of bad constitutions it frequently proves fatal. In these cases, however, there is usually some other complaint existing at the same time. The Thrush is of very uncertain duration, sometimes it disappears after a few days, and nomotimes it may continue for several weeks.
Trealment.-Give the child a small quantity of Carbonate of Magnesia, about twice a day ; (from two to four grains according to the age of the child,) or, if the ehild should appear to be griped, the Carminative may be given instead. If the bowels should be much relaxed, one or two grains of finely powdered chalk may be added to each dose. As an application to the mouth the very best is a mixture of borax and honey. A quartor of an ounce of borax, finely powdered, to be mixed with an ounce of honey. The best way to apply it is for the mother or nurse to dip her little finger in the mixture, and gently rub it over the inside of the child's mouth. This is all the treatment/advisable, if the complaint does not yield to it, it is better to have the child soen by a competent medical man, in case something more serious should be the matter. If the child is sucking, it is highly necessary that the mother should pay attention to her own diet; avoid pickles, vinegar, acid fruits, and live as much as possible on boiled mutton, poultry, rice puddings, and such

## TEETHING.

Some children cut their teeth easily; most of them, however, suffer more or less, during that operation. The child becomes fretful, feverish, often screams with pain, and is frequently sleepless at night. Sometimes convulsions occur. The gums swell, and frequently become red and tender. If the bowela become disordered, a little carbonate of magnesia, mixed with a little peppermint-water, or a little of the Car. minative may be given twio or three times a day. A warm bath, once or twice a day (not so hot as to hurt the tender akin of the child, will be of service. As scon as the teeth are sufficiently near the surface, which
ite die. One of hildren, in-

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ly a fow woeka or whitish spota ; thoes increase of the mouth, rost. In mome The eruption his is considerhe voice is apt ky Diarrhuia, cen and slimy. g nour ; somethe complaint 1 constitutions ere is unually ush is of very ys, and some-
of Magnesia, he age of the minalive may , one or two As an apind honey. A xed with an ror nurse to the inside of he complaint a competent 3 matter. If should pay its, and live gs, and such
may bo known by the tooth ihowing shllich through tho gum ; conaiders. able reliof will bo afforded to the child by lending the gume, oither with a gam lancet or a sharp panknifa. Ap nature comen to havo given the child a natural inotinct for biting at thinge during thin period, it io advieable to maint nituise on far m lices in our power. It in gonerally supposed that biting hard subotancos tende to harden tho guma. Ivory ringe, which ueod formorly to bo niod, are therofore laid mide, and therr. place supplied by those of Indin Rubber. In laneing the guma, it is beat not to tance more than one or two teeth at atime, or we may cauce more bleeding than is desirable. Children will frequontly mako consiaierable opposition to the operation the frat time, but inetinct soems to teach tho child that thie meliof oxperienced in from the lancing, and I have eeldom seen much trouble the scond time
During teething, children are apt to be affected with cores on different parts of the body, cauned a good deal by friction, from parta of the ton. der skin rubbing together, and partly from constitutional irritation. It is sufficient in these caucs to powder the sore places night and morning with a little hair pooverer, fincly poiodered starch or Calamine pooder. It cannot be too often ropeated that, during the time of suekling the child, the health of the child depends mainly upon that of the mother. If the mother lives proporly, and the milk is of good quality, the child (apart from any constitutional taint, ) will grow atrong and healthy; if, however, the mother liven improperly, or, in any way impaira her own health, the child will necemarily sufter.

## VACOINE OR COW-POX.

Pomibly hardly any discovery has over been made of so much benefit to the human race, we that Cow Pox was a protection against the con:tagion of Small-Pox. When we consider that Small-Pox has alwaya been; not only the moot dingusting, but one of the mont fatal of disceasen; when we think of the thousande who in past agos used to die of this hideous divease, and of the many who when recovered, were disfigured for life, wo can hardly exprene our gratitude to that individual, the lato Dr. Jenner, whose persevering investigations led to so valuable a diecovery.
At the time the dircorvery was made, inoculation for Small-Pox, was largely practised in. England, as it was found that those who were inoculated for the disease, when they were in a good state of hoalth, had it moro favourably than thowe who took it in a natural way, when, perhape, the aystem was out of order. Dr. Jenner, being largely engaged in tho practice of inoculation in the county of Gloucester, in England, found certain individuale who would not take the dinease. On inquiry he accortainod that theie partion had had a complaint from the Cown (caught by milking them whon tho teates wero afifoctod with purtulea,) Thich compleint, in that neighbourhood, was suppooied to bo a preventive agginet the Small. Pox. The iden occurred to $\mathrm{D}_{5}$. Jenner that the complaint might be artificially communicated from one individual to
another, and he immediately commenced a series of experiments to teat $179 \mathrm{t}_{\text {acts. Having collected rufficient proofe, he published in June, }}^{\text {the }}$ 1798; an essay, entitled, "Inquiry into the cause and effects of the Variolve Vaccinse." This essay attracted great attention, additional ovidence was soon accumulated; and the practice of Vaccination spread Whith great rapidity. The British Parliament voted Dr. Jenner the $^{\text {. }}$ the United States; in therling. "In 1799, Vaccination reached France, and other parts of the following year it was admitted into almost all portions of the world , and even to India, and very soon to Opinions difer as therd. deal must, of course depend age at which to vaccinate a child: A good desirable that the child, when the state of the child's health, as it is good state of health. Then again, the stod; should; if possible, be in a less chance there is of its suffering from its coming in is vaccinated the Pox. I have taccinated persons of all ats coming in the way of Smallchild is vaccinated after it is six months ages, and I think the sooner a rally supposed that any other disease can the better. It is not genethat complaint, but, as many people he can be communicated along with it is as well to select a healthy child to a little prejudice on that point, is now so universal that there is to vaccinate from, and vaccination whose state of health is satisfe is usually no difficulty in finding one generally inserted the lymph in one p.. In vaccinating a child, I have English practice. In vaccinatione place in each arm; this is the usual puncture the better. I have lige less blood there is drawn from the "failure" have arisen from the ble doubt that many of the casees of the lymph.: In America, it is a coeding from the puncture washing out child and use that for the purposes of practice take the scab from the lymph is generally employed, either vaccination; but in England the of ivory, called Points, or else betwresh or preserved on little pieces inch square. Where possible, the child two pieces of glass, about an and the children to be vaccinated are ben, the one to supply the lymph, punctures are made in the vesicle brought together. Two or three rather, the points of the ivory pole with a lancet; the ivory points, or and allowed partially to dory points are dipped in the oozing lymph, slight puncture is made in for two or three mingtes; then, a very one of the points inserted in the prm of the child to be vaccinated, and for ten or fifteen minutes, after puncture, and allowed to remain there after making the puncture, the lancet it is withdrawn. Occasionally, then re-inserted in the puncture, and etself is dipped in the lymph, and into the wound. Sometimes the and the lymph wiped, as it were, punctures in the sides of the lymph is obtained by making small thereon, the lymph oozes on to thesicle, then gently pressing the glass on the first, and the lymph the glass. Another piece of glass is placed for use, the glass is held over the se glasses together.' When wanted the glasses soon separate. I once the steam from a cup of hot water, and noon. Having previously vaccinated two or thrty (of all ages) one afterWhere the others resided, I made an two or three children in the village me in the school howse on the ninth deppointment for them all to meet
iments to test hed in June, effects of the on, additional ination spread : Jenner the stion reached dmitted into very soon to
ild: A good ealth, as it is ible, be in a sccinated the 'ay of Small. the sooner a is not genealong with 1 that point, vaccination finding one uild, I have is the usual on from the be cases of washing out $2 b$ from the ngland the ittle pieces , about an the lymph, o or three points, or ig lymph en, a very lated, and nain there asionally, mph, and it were, ing small the glass is placed wanted ter, and ne aftere village to meet I supply
of poinct the operation was soon aver. Out of that forty only troo required re-vaccination.
Taccine-lymph is sometimes put up in emoll glans tabee for eending to a dirtance, but they are too liable to accidente. When practicing in Illinois, some yeara ago, I wrote to the Rojal Vaccine Institution, at London, (England), for some lymph, which was sent me in a letter. There were two or three tubes, and two or thrise points. The tubes were smashed, I suppose, in stamping the letter; and I got just lymph suf: ficient to vaccinate ong child ; from that I vaccinated others, and eventually nearly all the chiildren in the neighbourhood. Although the lymph on the points had been six weeks on the way, it was perfectly good. The eighth or the ninth day is the usual time for taking the lymph in England. If taken on the eighth, the child vaccinated there.with will usually have the Cow-Pox at the height a little earlier than if taken on the ninth day.
The majority of children suffor so lititle from vaccination that no after treatment is necessary ; beyond taking care to arrange the sleeves of the child's dress in such a way that they do not rub and irritate the pustules. About the third day after vaccination the pustule begins to rise, and continues enlarging till about the seventh or eighth day; when it is round, flattened at the top, of a pale pinkish or flesh-coloured tint, semi-transparent, and, in point of shape, very much resembling thowe seeds of the mallow tribe, called "cheeses" by the children. There is generally a little rediness of the skin surrounding the pustule, which increases in diameter with the growth of the pustule. About the tenth day the pustule loses its transparency and becomes opaque, and, after a few more days, dries up, and the scab falls off:
It sometimes happens that about the fifth or sixth day the child becomes feverish, and restless; when this is the case, a fow mild doses of Magnesia, or Magnesia and Rhubarb, or Castor Oil will be sufficient to effect a change.
Some persons are much less susceptible to the Vaccine virus than others, and more or less so at one time than another. I have known chiidren vaccinated five or six times without taking the infection, although there was no doubt about the goodness of the lymph. On the other hand, I recollect an instance of a child, four or five years old, which not only perfected the pustules on the arpis, where the lymph Was.inserted, but, actually had a crop of pustules distributed over the body-some ten or'twelve of them-which were perfect Vaccine pustules, and ripened about the same time as those on the arms. In this case the constitutional disturbance was not greater than that of the general average of patients, Some people have an idea that, aftor a cortain number of years, the effect of the Vaccination wears off, and that, in order to insure protection against Small-Pox, it is necessary to revaccioste ; bnt the experience of thie majority of the medical profession does not encourage that idea It is tride that, occasionally, a person who had been reccinited will take Small-Pox, but, the disemese is always mild, and, it is certain that not a greator number of porsons take Small-Por attor vination, than take Small Pox a seconid time

In case of the appearance of Small-Pox in any neighbourhood, the inhabitants should not hesitate a moment, but, should there be any amongat them-young or old-who have not been vaccinated, they Pox has attacked operation performed at once; even when the Small (even if they are living in the a family, the vaccinating the remainder spreading of the disease:

Some people have a prejudice against having their children vaccinated, from the idea that other diseases may be propagated from child to child along with the Cow-Pox; this, however is quite a noedless alarm, as the experience of the Profession leads them to quite a contrary opinion.

## CHICKEN-POX

Chicken-Pox is a contagious eruptive disease, which usually commences with a slight fever, frequent headdache, and occasional vomiting. Sometimes the fever is so slight as to escape notice, and sometimes tion breaks out w. After a short time, usually a day or two, an erupback, from whence it spy first appearing on the breast, shoulders and usually less affected than in Small-Pox. face and limbs. The face is numerous, sometimes few, and, almost al. The pustules are sometimes appear as small bright-red spots, which ways quite distinct. They first rise into pimples) ; and sometimes they seem to breal vesicular, (that is, The eruption is not unfrequently attended with itching or that form, which causes the child to scratch and rub itself, thus frequently breal. ing the heads off the pimples. The unbroken vesicles are generally transparent, colourless or sligh an inch in diameter, rounded at top, Sometimes they appear in successive fow, and very easily ruptured. About the fourth or fifth day they begin crops for two or three days. the sixth day small brown crusts begin to shrink and dry up; about drop of about the ninth or tenth appear, which gradually harden, and but po pits. If, however, the pu, day, leaving a little discolouration, they will occasionally leave pits lues are much scratched and irritated, doubt, occasionally been mistalien behind them. Chicken-Pox has, no disease ; in fact, it cainnot be said to be Small-Pox, bút it is a much milder But little treatment is required to be ever dangerous. thartic Powders two or thequired; \& few doses of cooling physic (Caor two of Castor Oil, will generally acording to the age of the child), or a dose a mild diet. : The child should be be sufficient, with conling drinks, and and as soon as the scabs fall off, zept in doors during the complaint, Chicken-Pox occasionally attacks rom bath will be advantageous. seldom.

## INFANTILE CHOLERA, Or stummer Complaint of Children.

This complaint, as ite name implies, usually commences with the
nurhood, the here be any inatod," they 1 the Small 10 remaindor prevent the
ron vaccinrom child to lless alarm, atrary opin-
ually com1. vomiting. sometimes o, an erupulders and The face is sometimes They first $r$, (that is, that form, tingling, tly breakgenerally $d$ at top, ruptured. ee days. p; about den, and ouration, irritated, has, no $h$ milder
raic (C2. ra dose iks, and nplaint, tageous ratively
heats of summer. It affects children between the ages of three monthes and two years, though sometimes it occurs a good deal later. It is saipa by an American Physician, that, "it is confined almost entirely to citie " and provails most in those of largest size, and most densely peopled f? but, in Canada, it is not by any means uncommon in country placeas.
The atiack is often preceded by Diarrhooa, but sometimes the vomit. ing and purging commence at the same time. In fatal cases, of shoft duration, the vomiting ussally continues to the end; but when the disease terminates favourably, or is müch protracted, the vomiting oftbin subsides, or ceases altogether, leaving only the Diarrhoea behind. $\phi_{0}$ casionally, the disease is exceedingly violent and rapid ; the vomitting and purging are almost incessant ; the stomach rejecta everything swal. lowed ; and, if relief is not afforded, prostration comes on, with a cool and clammy skin, pale and shrunken features, half-closed eyes, insensibility, and death in from twenty four hours to three or four days. Much more frequently, however, the attack is attended with feverish symptoms, and the case protracted from one to several, weeks. In such cases the pulse is frequent, tongue furred, extremities cold ; abdomen sometimes painful on pressure. During the complaint the child generally sleeps with the eyelids more or loss open, there is getierally thirst, the appetito is variable and capricious. The stools are frequently green, or yellow, sometimes tinged with blood, sometimes dark coloured; sometimes worms are passed. Infantile Cholera is supposed to be caused by heat combined with itipure air; assisted frequently by improper diet,exposure to cold, worms and teething.
Treatment:- If the child issucking, considerable attention must be paid to the health of the mother, and if her milk should appear to disagree with the health of the child, it must be changed for fresh cow's milk, with Arrow Root', Sago, or ground-Rice. Sometimes, when there is much acid in the child's stomach, the milk becomes curdied and thrown up. In this case a little. Magnesia (aecording to the age of the child), given two or three times a. day, combined with a little Peppormint or Carraway water, will frequently stop the sickness. If the bowels should be much relaxed, a teaspoonful of Chalk Mixture, or of the Astringent Mixture, No. 7, may be substituted for the Magnesia, and given three or four times a day. When the Diarrhoea subsides, a littlo Magnesia may be added to the Chalk Mixture, so as not to confine the - bowels. A little chicken or mutton broth may be given-occasionally; say once or twice a day. Friut or vegetables (especially pickles) should be prohibited. Calf'sfoot jelly is a mild and nourishing food, so also is isinglass jolly.

Thin flameel should be worn next the skin ; and the feet and legs shoold be kept warm. A warm bath, up to the arm pits, once or twice a day, will be of benefit.

## CONVULSIONS.-(Infantile).

Convalsions in children may either occurt as a consequence of other discoases; or they may come on suddenly; without any warming. The voluntary muacles of all parts of the body may be affected, or the spasims
may be confined to one half tho body, or to a cingle limb, or to the feat tures. There may be only a single attack; or several in succesaioni. During the fit, the face is sometimes pale, sometimes purplish or livid; the lips tùrn blue, the features often appear to be swollen, the veins of the neck distended, the surface of the body more or less heated, and the pulse frequent and irregular. The abdomen is sometimes swollen, and occasionally, involuntary evacuations take place. The fit may last for only a few moments, or, a succession of fits may continue for hours or days. Upon the subsidence of the fit the child is generaliy disposed to sleep. In some cases; however, the child is bright and lively immediately after the cessation of the spasms; in others the convulsions go off with vomiting. Occasionally, when the paroxysm is oter, it is found that some serious lesion of the brain or spinal marrow has taken place, as shown by partial paralysis, squinting, and various mental disorderd; and sometimes the fit is only the commencement of a series of attackses which eventuate in Epilepsy.
Convulsions sometimes end fatally, though not often, unless connected With other disease ; but they always demand prompt, and careful attention.
$\therefore$ After deatir from convulsions, there may be nothing discovered in the brain to account for the resplt ; but, in the great majority of fatal cases, congestion, effusion, softening, tumours, or other signs of inflammation or organic affection of the brain or spinal marrow are found to exist. Some children are much more liable to convulsions than others; those o of a sensitive, pervous and irritable temperament being most so. Sometimes a child is supposed to inherit a predisposition from the mother; while, in other cases, all or nearly all the children of a family will be anbject to convulsions, when neither of the parents has ever shown any tendency in that direction. Children thus predisposedshow themiselves more impressible than others from slight causes; are very excitable, if not properily controlled are apt to be fretfil or irascible, and sometimes exhibit"great precocity. The predisposition to the disease may also bo caused by impure air, unwholesome diet, and anything that, has a tondency to lower the standard of health.

The immediate or exciting causes are very numerous. Strong and, sudden'emotion, as fear, anger, surprise, is a frequent canse ; excessive artificial heat, exposure to cold, over exertion, and falls or other accidents, may bring on convulsions. One of the most frequent sources is the jeritation of teething. Indigestible food is often the cause of ecminulsions; also 'acid in the stomach atad bowels, and worms. Whatever canses spasms in the intestines may produce convulsions, for nothing more affects the rervous system of the infant thian violent pain:. One exciting cause is the quality of the milk of the mother or nurse. Many substancees taken by the mother will act directly on the child ; as, particular hinde of medicines, for instanca.

Treatment. As soon as possible after the fit comes on, pat the child in a warm bath, up to the neck; (let the water be as hot as the child be complied ovar the head the mame time rags yrung ont in cold wetor misy be applied over thig head. The child should remain in the batin for tion
or fifteen minutes, then be taken out, wiped dry, and wrapped in warm flannel. The bath may be repeated in a few hours, if neciscary. If there is reason to suppose that the fit has been caused by any indigentiblo substance taken into the stomach, it would be advisable to remove the, cause by giving the child a mild emetic of Ipecacuanha ; (say one grain for each year of the child's age, repeated in ten or fifteen minutes, if it does not operate)... After the stomach is cleared, a teaspoonful of the following mixture may be given three times a day (for a child from nine to

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\begin{aligned}
& \text { twelve months old, and in proportion for other ages) :- } \\
& \text { Carbonate of Magnesia, .......................... One dram. } \\
& \text { Powdered Rhubarb,................................Fifteen grains. } \\
& \text { Tincture of Assafætida, ................... ...:. Half a dram. } \\
& \text { Essence of Peppermint, ........................One dram. } \\
& \text {....Half an ounce. } \\
& \text { Water, sufficient to make four ounces.-Mix together. }
\end{aligned}
$$

Women, in many parts of the country, have à bad habit of suckling their children long after they ought to be weaned, and both mother and children, ftiffer. Usually, the reason for this is, a notion they have that as long as they suckle there is no danger of their again becoming pregnant. Hence, they set at naught the divine command to "increase and multiply," and Endeavor to limit the increase of the population. ${ }^{\circ}$ This atal cases, lammation exist. is generally a mistaken idea. Nine months is the natural time during
which the child shoula suck; after that time the milk of the mother is ris ; those o. Some not proper food for the child, and cannot do it good, while the constant drain wazkens the mother.

## INFANTILE PNEUMONIA: (Inflamtnation of the Langs.)

In this disease; the symptoms at first are somewhat obscufe. Children seldom expectorate, or $\mathrm{at}_{\sigma}$ least they: are apt to swallow. what theoy raise from the lungs, so that the secretions are not brought to view; and; although they frequently cry as if in pain, it is difficult to determine where it is situated. Pain, too, is, sometimes wanting. Occasionally, however, the disease begins with fever, hard cough, hurried breathing, and pain, Indicated by the child crying when it conghs. Sometimes it is difficult to distinguish the symptoms from those of some disease from Which the child may be Just recovering, as Catarrh, Measles or Whooping Cough. But when the complaint is more adranced, fever sets in, with a very rapid pulse, hurried breathing; flushed face, often great restlessness, and frequent cough. The pulse is seldom under 120 , sometimes ás high as 140 or 160 . in a minute. The breathing is very. quick,

- and varies from 40 to 60 , or oven more respirations in a minute. If the complaint increases, the powers of the system begin to fail; the cough becomes feeble or quite suppressed; the voice can scarcely be heard; the aries grow faint or casse altogether; the pulse becomes exceedingly. small and weak; the recpirations irregalar and sometimes interruptod with deep sighing; the extremities become cold ; the face pale or livid; :
and death soon takes place, usually preceded by a period of drowsiness or itupor. Should the disease, however, tike a favourable turn, all the symptonis begin to improve in about a week, more or less, and the child gracually returns to health. : Occasionally abscessen are formed; and; lent expectoration, severe con produce suffocation, or are followed by puri". tion; until at length the child sinks sweats, hectic fever, and emacia-. pens, under judicious treatment, returns gradually to health Changes of the weather are among gradually hoalth. monia Sudden exposure are among the most common causes of Pneuing, is very apt to produce it cold; when the body is warm and perspirridual exposed is at the time labouring uecially the case, when the indimost common towards the ond of Wing under a catarrhal attack. It is and some persons appear to be peculinter and the beginning of Spring, Treatment.-In no disease is peculiarly liable to its attacks.
nation in the treationsease is it more important to use proper discrimithe disease, might produce Measures that are necessary at one stage of If the disease is taken at the comm results if adopted at a wrong time. applied to the chest; but; in very young infants or three leeches may be sometines resulted from the application infants, dangerous bleeding has therefore be taken that the bleeding is not allowed to great care must If leeches are not considered safe, (and with older to proceed too far. after the leeches, $\mathfrak{a} \cdot$ amall blister (and, with older children, genèrally and legs may be frequently, (two may be applied to the chest; the feet water for ten minutes at a time, and three times a day,) put inte hot care being taken that the child is not wrapped up in warm flannel; tion. A dose of from half a grain to a grain to cold during the operathe age of the child,) may be given two or three timeom a day ; and fo half $a$ teaspoonful to a teaspoent given two or three times a day; and from every tro or three hours:

$$
\begin{aligned}
& \text { Antimonial Wine } \\
& \text { Ipecacuanha Wine } \\
& \text { One Ounce. } \\
& \text { Syrup of Poppies..................... .............Three Drams. } \\
& \text { Thin Gruel suffieient, to make up four ounces } \\
& \text { to mak up four ounces. }
\end{aligned}
$$ a little feeling of nausea will not be quantity may be diminished; but produce actual vomiting : Should tho injurious, as long as it does not. dose of the Cathartic Powder, numbe bowels become confined a small age of the child;) may be given accasionally, The di (according to the gruel, arrow root, sago, and as the complaint subsides, chickensist of real-broth, rice and bread-puddings may be added.

## INFANTILE SPASMS OF THE GLOTTIS (Croving Disease;'Invards Fits, Spasmodic Croup.)

This disease, though rimilar to croup in some of its symptoms, is essentially distinct in the circumstance that it is purely nervous, and altogether independent of vascular irritation or inflammation of larynx.
trowainions m, all the' the child med; and; 1 by puri: d emaciames hap-

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 perspirthe indik. It is Spring, discrimistage of ng time. - may be ling has tre must. too far. enèrally the feet ate hot tannel ; operading to d from e given1; but res not. small to the sist of broth,
ms , is 3, and ryax

The complaint is usually charicteterighd by a ahrill sound in drawing in the breath, somewhati like the crowing of a cock, which has given origin to the name of crowing disease. The complaint it confined to infancy and very early childhood, occiurring at any tir . Trom a few days after birth to the end of the third year, but most frequently during teething.

The attack is sudden, and may occur at any time; though it most frequently comes on during sleep, from which the child awakes suddenly with a start. The first symptoms are a struggle for breath, with the head thrown back, the breast elevated, the nostrils expanded, the mouth open ; the veins of the neck and head are distended ; the countenance flushed, swollen and purplish, or else of a pale cadaverous hye with an expression of anxiety and distress, At length, but occasionally not until symptoms of suffocation appear, the spasm of the glottis somewhat relaxes, and the air rushes in with a shrill whooping sound. The child then usually begins to cry, and, after a short period of hurried breathing, returns to his previous health. Not unfrequently along with the difif. culty of inspiration, there is a spasmodio contraction of the fingers and toes, and the paroxysm; is sometimes followed by general convulsions. When the attack is over, the child is free from all symptoms of disease of the throat. Occasionally; only a single paroxysm occurs at first, and the disease does not return for weoks. But the interval is often much shorter; and, in bad cases, the attacks take place several times a day, increasing in duration and frequency.

The complaint is usually unattended with cough, fever, or bronchial disease ; and thus it may be easily listinguished from Croup.
Though often a trifling diseame, it is sometimes very serious. In a few cases the child perishes with suffocation from the severity of the spasm, but in general, the complaint', whon alarming, is so, merely as a sign of serious disorder elsewhere. It is ofter rather a symptom than ittelf a disense.

The disease appears sometimes to depend npon a general morbid excitsbility of the nervous systom, which is affected by slight causes, such as the sudden contact of cold air, any quick unexpected movement, or mental emotion, especially fright. Hence infants are sometimes attacked with it, when tossed playfully in the air. The act of swallowing occasionally brings on an attack. This state of nervous irritability is most frequently owing to dentition ; but it may also bo produced by other causes which deteriorate the general health, such as impure and confined air and unwholesome food. Aittacks may be brought on by sources of irritation in the intertines, inclading undigested food; qeidity, acrid secretions and worms. It is very apt to attack children brought up by hand. In some instances the discuase is dependent on affections of thé brain, and hence it has been considered one of the earliest sighs of water on the brain.
Treciment-It is sometimes highily important to relax the spasm of tho glottil at the commencement of the paroxysm, so as to prevent suffocation. This may generally be accomplished by dashing cold water upon the face or shoulders, gently slapping the back, blowing into the fice, or exposure to a current of cool air at an ppen window. Ono of

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## gMITR's FAMITY PHYgtctâr.

the beat means of proventing a return of the fit is to put the child up to the chin in a "warm bath two or three times a day. Inhalation of the vapour of Ether was successful in curing a very bad case, recorded by Mr. Image, of the Sufiolk Hospital, England. It was applied by: moans of a sponge held to the mouth and nostrils, at the commencement of the paroxysm; Which was instantly checked; and at length the attscka ceased entirely. The bowels should be carefally attended to; and should be regulated by small doses of Rhubarb and Magnesia, and occasionally, if the motions are of an unhealthy colour, small doses of Meroury and Chalk (Hydrarg: cum Oreta); for an infant under a year old one grain doses may be given. The child should be warmly clothed, and, if not weaned, and the mother's milk is not sufficient, or the mother is not in good health, it should be fed on good cow's milk, thickened with arrow root, ground rice, prepared barley, or corn starch ; good bread soaked in chicken, veal or mutton broth will also be good.

## WATER ON THE BRAIN. - (Hydrocephalus.)

The prominent symptom, and the first usually noticed in this disease, is an enlargement of the head, "As the face is in general not enlarged beyond the size of health, the additional size of the forehead and sides of the head becomes still more conspicuous. In some cases the face undergoes a corresponding change, and the whole head appears gigantic. The size which the head is' capable of attaining in this complaint is enormous. Thus, Willan speaks of a child two years old, whose head measured twenty nine inches in circumference; and another of fourteen months measured nearly twenty-three inchos. In general, however, the size is much less.

The child walks, if it has begun to walk, with a somewhat tottering or uncertain gait, and not unfrequently falls. He either holds his head stiffly and watchfully erect, so as to prevent its falling on either side, or supports it with his hand, or upon somo object in his vicinity. In bed, he usually lies upon his back. The limbs are frequently affected with tremors. There is occasionally pain in the head or limber which appears to be paroxysmal, and, when violent, causes the child to scream. The expression of the face is usually sad, sombre; or stupid. The acuteness of the senses is diminished. Dimness of vision occurs, which in some instances increases to blindness, while in others the patient can see to the last. The skin becomes more or less inenensible; and the smell and taste are sometimes affected. Hearing is usually the last of the senses to fail The intellect is seldom much deranged in the earlier stages; though the memory is evidently enfeebled, and not unfrequently a certain dulness of mind is evident. The appetite is sometimes reen, and, unless some other disease complicates the ciase, the child may even increase in flesh. But more frequently ho becomes emaciated, although he may take more than the usiual quantity of food. Tho bowels are generally costive, and the urine scanty. A disposition to copious secretion of tearis and saliva have been noticed. At length the symptomi become more violent, and occasional vomiting, contractions

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Treatment. This is one of those casies where the services of a compe tent professional man should be called in, if porected to the general health be done, care should, in the first place, be and nourishing, with pare air and of the child ; its diet should be light and head should be kept coverod Warm bathipg once at least a day. .The hept regular with mild catharwith a woollen cap; the bowels shourd of Nitre and Acctate of Potash may tics ; and small doses of Soued Spiriss of Nave been of service. Benefit is be given. Cod tiver or is alro putting the patient under the influence of mercury'; but this should never bo risked by the parents themselves. The operation of tapping has been often performed with more or lose succoss. In some cases temporary relief had been obtained, in others the operation has appeared to aggravate the symptoms and hasten death, and in others again, though comparatively few, a complete cure has been effected. But the risk is so.great that the operation should never be attempted till all other measures have failed.

## CROUP.

This is a complaint usually attended with much danger, and which requires such prompt treatment that the parents should never-unless from circumstances absolutely compelled-depend upon their own skill and treatment. In many cases, the success of the treatment and the safety of the patient depend so mach upon the promptitude with which the case is treated, thiat if there is a well qualified medical man within reach he ahould be at once summoned.
This is a disease almost peculiar to infancy and childhood; it commences variousisy. Not unfrequently the child is affected for some time with the symptoms of common Catarrh, and perhaps fever, before thooe peculiar to Croup are developed. Very often a croupy cough and come hoarreness procode the attrack for some hours or even days ; and thii atate of things; though always sumpicious; sometimes pasies away gpontheobialy, without the occurrence of thie fully formed disease. Ot en thewo symptoms have continued for a longer or shorter time, or, some-
timea without warning of any king, the child is attacked with a paroxyum of coughing and shortnoses of breath. In the majority of casen this occurs in the night, and more froquently in the early part of it than towards morning. The paroxyam differn greatly in severity in different cances, sometimes being slight, and at other timos violent and alarming.
Tho child usiually starts out of sloep with a peculiar, dry, sonorous, ringing cough, sounding, according to Choyne, as though it came through $a$ brazen trumpet; but, in fact, comparable to nothing elso in nature and to be appreciated only by being heard. When once heard it will always afterwards be remembered and easily recognized. So characteristic is it of this disease that, when met with in othor affections, as sometimes happena, it is called the croupy cough.
If the child atteinpts to speak; the voico is usually more or leas rough and hoarse, though, very rarely quite extinct or whiepering. The distreas of the child during the paroxysm' is often very great; he sits up or tosses himself about in bed, supports himself on his hands and knees, or lies on his back with his head extended; puts his hands to his throat ass if to remove some difficulty there, or holds them out imploringly for aid from his attendants ; and, as if conscious of threatened suffocation, has upon his countenance an alarmed and anxiouis oxpression. Sometimes, when able to speak, he complains of pain or tightness in his throat ; but his voice and his piteous attempts to cry are often atifled by the cough, and increase the violence of the paroxyem. At first, the countenance is usually fushed, the skin warm and the pulse frequent ; but, unless the paroxysm subsides, especially when it is very severe, the effocts of the impeded reapiration soon begin to show themselvea. The lips assume a purplish or livid hae, the face becomes pale, the extremities cool, the pulse very frequent; feeble and irregular, annd a condition takes place approaching to asphyxia, during which the apmem relaxes, and the air is again allowed to enter the lungs more freely. The violent symptomis are now moderated and the paroxyam gradually subsides, so that the child falls to sleep, and upon awaking is found to be greatly relieved. In some extraordinary cases, complete and fatal asphyxia may take place before the spontaneous subeidence of the paroxymm.
There is, however, a worse form of the disease than this, in which a lining or false membrane is formed in the inside of the windpipe which. gradually chokes the patient. In this case the symptoms of the latt stage occasionally come on very early, even within twenty-four hours from the commencement of the attack. More frequently, however, they are postponed for three or four days, and sometimos considerably longer. This stage is characterised by excessive difficulty of respiration. With complete suppression of the voice, and a tight and dry cough, the ingpiration is wheexing and sonorous, so that it may be heard at a considerable dirtance. The child uisen his utmost effopts to expand the chest, and the respiratory mascles are thrown into almost convulsive action; Tho ihoolders rise, the breast heaves, the nostrils expand and contract. the head is thrown backward. The force of the respiratory effort is cometimes so great as to rupture the aircolls of the lonigs, and oven to make a rent between the rings of the yindpipe. The child appearis in an

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aroxyam is occurm towards at casen,
phorous, through nature, I it will aracter-somedistreas $r$ tosses lies on as if to id from uson , when but his Sh, and is usuhe parhe imume a ol, the ace apair is ptoms at the ieved. place
uich a which - last hours they nger. tion. , the conhest, tion, ract. at is in to n an
agony of distresa. Ho thrown himsolf about in bod, or jumpe np and runs to the window for air, his face bearing meanwhilp a mont anxious, alarmed, and imploring expression. At longth, the powers of the syll. tom fail, the pulse becomes oxceedingly quick and feeble, the skin cool and bathed in sweat, the cheekn palo and cold, the lipe livid. The brain and heart cease to act, and the patient sinks gradually and quietly away, or tho nervous syatem rousem itself for a last atruggle, and death takes place in the midst of convulsions. Not unfrequently, however, the patient is cut off at an earlier stage by suffocation in one of the paroxysmm Instances of recovery from the last stage are very rare. The duration of the disease varies from less than a day to one or two wooks.

The mont common cause of the disease, in all its forms, is cold, or cold combined with dampness. The disense is said to provail most in moist places. It is frequently brought on by the sudden passage from hot to cold air, and in infaints, in probably often produced by sleeping in very cold chambers, after having been all day in hot roome. Irritating substances inhaled into the lungs havo sometimes caused it.

The disense is not positively confined to any period of lifo, but it is exceedingly rare in gdults, and is soldom seen in very early infancy. From'one to seven years is the age at which it is most prevalent, although cases are not very uncommon at any period before puberty. The disease sometimes appears to run in families, and males seem more liable to it than females. Vigorons and fleshy children, with rosy complexions, are said to be most irequently affected.

Treatment. -The treatment must be prompt. As quickly as possiblo get water heated, and put the child into a bath, as hot as it carr bear it, up to the neck; keep it in for ten or fifteen minutes, then wrap it up in warm flannel. While the water is heating, give the child an emetic. (There are certain things that every family should keep in the house, and Powodered Ipecacuanha or Ipecacuanha Wine and Animonial Wine are two of them, If the child is yourg, say two or three years old, a. teappoonful of Ipecacuania Wine or Ansimonial. Wine may be given it overy ten minutes till it begins to retch, and then it may drink a little lukewarm water occasionally till the vomiting is free. If attended to in time, these means will generally give relief, and all that will be necesgary attervarde will be to repeat the warm bath occasionally, guarding carefully against cold, and'a dose or two of Castor Oil or Senna. Tea. Whon Ipecacuanha or Antimomial Wine is not-obtainable, thip mustard will act as a substitute; it may be worked off, like the other emetics, with warm water, but it is rather too rough an emetic for a young child. If the warm bath and the emetics do not at once moderate the symptpms, it is bent to send without delay for medical advice.

## INFANTILE REMITTENT THVER

Childron, from two to eight years old, are, most liable to this complaint Sometimes it is occasioned by improper diet, sometimes by exposure to heat, cold, or damp. It generally comes on with a litulo
ache, and coldnowes of the feet and loga. The child has probably boon playing out of doors when first attacked, and thue nothing is noticod to bo the matter till the fever has become establiahed. When first noticed, the child will be found to have a hot skin; a quick pulte, a dry. and furred tongue, quick breathing, no appotite, conniderable thirst, If motimes rotching or vomiting, and the bowele are generally confined. If able to make himeolf understood, the child froquently complaine of pain in the head, but if otherwiso, is restlese and uneacy, or, if quiet, is heary and diaponed ro sleep. "During dleep, the child will frequently atart and hwura, the violence of and oocacionally will be convulsed. After morning, the child is found with aymptoms abates; and on the following mouth, and a brighter and more liveoler akin, a alower pulse, a moister the fever again rises with similar symptoms as at first, and thus the disease continues till itid close. In aome casos, however, the morning improvement is much lose decided than in others, and occacionally it is difificult to decide at what period of the twenty-four hours the feveriah symptoms are most violent. The bowels aro gonerally confined, and clay-coloured, dark, or groenish, with any appearance and amell, being generally scanty, and the breath frequently light-headed, but more frequently there is drowsinesse, sometimes often amounting to stupor. Sometimes the child picks its lips and nostrils and also picks at the bedclothes.
The disease runs on from five to ten days, but in occasionally protracted for one or even two weeks, but in these cases, the complaint is frequently accompanied with inflammation within the abdomen. Where the complaint is simply fever, without any complication from inflammar tion, there is no danger, and the child alway - with proper treatmentrecovers; the attacke of fever gradually become ahorter and milder; purgative medicines operate more readily, and bring awiay more heallihy discharges ; the urine becomes more plentiful; tho hent of the alkin and the frequency of the pulse diminish; the tongue becomes cleaner ; the appetite returns, and the health is gradually restored. When, however, the bowels become swollen and tender upon presure, accompanied with diarricoen, and less decided abatements of fever, there is reason to fear danger from inflammation ; and proper medical advice should be at once obtained. Some authorn attribute this complaint to worms, and there is no doubt that they are sometimes the cause of it.
In ordinary cases, if the symptomis are mild, a fer doses of opening medicine (a little Magnesia and Rhubarb, or Magnesia and Semva Tea) with attention to diet, confining the child to oatimeal gruel, aago, tapioce, arrow root, and ground rice, and keeping the child in bed, sill generally effoct a curo; but when the symptoms are more sovere, with much fever and restloseness, with confined borrols, it is bettor to give a doese of Calomel (from one to two years old, a done of from one to theo grains, and from three to five yearis old, a dose of alres grains) in a little jelly, honey, or sugar, followed about six or eight houri atterwards, by a emali done of Rhubarb and Magnesia, or Magnusia and Stnna. The diet pro-

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bly boon oticed to first no$\omega 0, \mathrm{a}$ dry. - thirut, confinod plains of quiet, it squontly Ater ollowing moister Jvances, thus the norning lly it in feverish od, and 1, being urine is often es evon 108trilg, Hy prolaint is Where lamma nentnilder ; realthy in and r ; the wever, $d$ with to fear $t$ once here is
sacibed abovo may be ailopted and continued, with occacional doses of opening medicine, if the bowrels are at all confined. Conaiderable benoeft will be found from amall doses of antimonial wine ; my for a child of wvo years old, five drops of Antimonial Wime throes timees a day in a littlo griue. It in not intonded to produco sicicmes; therofore, if that ahould bo the reanlt, the dose must be diminished. The child chould bo kept in bed, and an occalional warm bath will be of benefit. Sournese at the atomach will be beat counteracted by a littlo magnesia. skould the abdomen bo tendor on prosuuro, froquent fomentation, with yoft fannel Wrung out in hot water; ae hot nis can be comfortably borne, will give relief. The nurne, however muat recolloet that. the skin of a young ochild iot tender, and will not bear the same degree of heat as the akip of - grown perron.

As the child improves, chicken broth, veal broth, mutton broth, and boef tea may be given. Milk, when good, is a good diet, combined with oatmeal porridgo or good brown bread, but when thero is acidity in tho stomach, milk is apt to disagree, and to become curdled. Care should be taken to give nothing that can irritate the itomach and bowola. When the child is thirsty, cold water may be given frequently, and it is: gonerally refroulhing to the patient, and beginning to get an appotito,
When the patient is ro let it have tueli food as would be likely to lie heavy on the atomach; nothing in fact that is difficult of digootion.

## WHOOPING COUGH.

Whooping cough, somietimos called chin cough, when well ostabliahed, cannot readily be mistaken. The force of the disease varies much, even in its simplest form. In some instances, it is so slight that it can scarcely be determined after recovery; whether the child has had whooping cough or not. In others, again, it is is very severe, with frequent and violent paroxysms, which seem to threatein suffocation. By the pressuro upon the brain, fatal convulkions are sometimes brought on; and death may also take place from asphyxia during the paroxysm. In protracted cases, great emaciation and debility sometimes onsue, and the patient may die of exhaustion. But these satal terminations are comparatively rare, and most of those children, said to die of whooping cough, genorally die of a complication of whooping congh with croup, or with bronchial inflammation, or inflammation of some portion of the bowele. Whooping cough is of a spammodio nature ; it is one of those complaints that usmally atinck a person but once in a lifetime. It is very apt to provail as an opidemic, and by some persons is thought to be contagi-one, but I am not by any means convinced of the correctness of this opinion. Personse advanced in life are sometimes attacked with it; and Dr. Watson mentions a case in which a child was born with it. There is no doubt the canse of the complaint must be sought in the condition of the atmorphere.

Ircatment-In the early stage, if the cough is moderate, wo may commonco by giving a mild purgative as Castor O1, Magnesia, Tartralt
of Sodes or Eseon Salte, according to the age of the child. This may be
followed by a dowe of the following mixture:-
nam
Ten arrops of this may be giv or four times a day; for instance, if the child in of the child's age, three take 30 drops, and if six years old, 60 drope is three years old, it may feverish, a teaspoonful of the Fever Min drops for a dose. If the child is dose. . Sometimes considerable Miathre, No. 9, may be added to each warm plaister (Burgundy Pitch) to the will be derived from applying a and lege in hot water night and morning or back; bathing the foet body, and feet and legs in particular, mhournill be beneficial; and the there is much restlessness at night, should be warmly clad. Where ful."A child of five years old might Hyoscyamus (Henbane) will be usethane, combined with one grain of piowake one grain of Extract of Henof cold water, or the sucking a small piece of ice tied Sotimes a drink muslin, will give relief from the spasm. The co tied up in a piece of nourishing, consisting of gruel, sago, arrow the diet should be light and chicken broth; and; as the patient progreseot, jelly, ground rice; with chicken or boiled mutton will be penogresses towards recovery, a littlo. cough seems to linger ou long after all infly many cases, where the disappeared, and medicine seems to have no fummatory Eymptoms have a higher and drier locality, and to have no further effect, a removal to ders, and cause a rapid recovery purer air, will frequently work wontimes absolutely necessary to obtain in fact, a change of air seems some-

Beneine, a substance containain a cure. works, if placed in small quantities in the purifying chambers of gas ing from whooping couigh, produces exactly the or bed of a child sufferin gas works, and has the effect of exactly the same smell aṣ is observed sometimes rapidly Dr. Lect of relieving the distressing symptoms, he states that the disease itself only-lasted plan on his own child, and

## - WORMS

Five species of worms inhabit the human body-the round woorm, the thread worm, the long thread voorm, the common tape worm, and the broad tape worm.
The round worm very much resembles the common earth-worm: The thread worm resembles small pieces of thread, from which it has derived its name. The long thread worm is an inch or two ir length, and consists of two distinct portions; one of which, constitating two-thinds of the whole length of the animal, is scarcely thicker than a horseliair; the other and ahorter portion is very much thicker. Tho long tape ecorm varies from five or ten feot long to as much ar sixty feot long; and, it in said, has even reached a hundred feot. The broad flope long; and, it is

$$
\begin{aligned}
& \text { Ipecacianha Wine } \\
& \text { Antimonial Wine } \\
& \text { Oxymel of Squills } \\
& \text { Two Dramis } \\
& \text { Paregoric........................................... Half an Ounce. } \\
& \text { Water..............................................Two Drams }
\end{aligned}
$$

name implies, broader than the long tape worm. The round worm, thread worm, and long thread worm have the separate sexes in different individuals, but the tape woorms have only one sex, or both sexes in one individual:

Worms in tho alimentary canal frequently produce great disturbance in the system, unedsiness or pain in the stomach and bowels, sometimes gnawing or biting, and sometimes indescribable, yot very distressing. Sometimes a sense of itching at the fundament and at the nostrils. The bowels are often disordered, sometimes confined, at other times relared, with mucous or bloody discharges, as in dysentery. The mucus is some times in shreds or flakes, which are not unfrequently mistaken for fragments of partially digested worms. Frequently portions of undigented food will pass with the motions. The appetite is very uncertain; in some cases natural, in others poor, craving, or depraved. The belly is often swollen, hard and tympanitic, the breath unpleasant and the tongue furred, with a disagreeable taste in the mouth. Swelling of the upper lip, bleeding from the nostrils, and grinding of the teeth duririg sleep are frequent symptoms.

But the effects of worms are not confined to the alimentary canal; various derangements of health are experienced in consequence either of the direct irritation of the worms, or of the disordered digestion which they occasion. Among the most common of these are nervous affections, such as fretfulness, irritability of temper, wakefulness or drowsiness, disturbed sleep, sudden starting out of sleep as if from fright, giddiness, headache, spasmodic movements of the eyelids, impaired vision, singing in the ears, and partial deafness. Convulsions are not unfrequent in children, and symptoms strongly resembling those of water on the brain have been ascribed to worms, and have ceased on their removal. In addition to these symptoms, obstinate cough, shortness of breath, palpitations, hysteria, and a general disturbance of the system, marked by a languid circulation, sallow skin, sunken eyes, dark circles around the oyolids, and general emaciation. Persons in apparently perfect health are occasionally affected with worms, which give no signs of their existence until they are observed in the ordinary passages, or are expelled during some acute attick of disease, either by the medicines emplojed, or the influence of the disease itself; and it is no uncommon event to find worms in the bodies of individuals after death,' who have shown no signs of them during life. Hence, some persons have inferred that they are generally, if not al ways harmless, and some have even gone so far as to contend that they perform \& useful office, being intended as scavengers to clear off the noxious matters contained in the bowels. But thewe opinions are opposed to genetal experience.

Worms are very seldom fatal It has bieen supposed that worms are capable of piercing the intestines, and a case is on record in which a portion of the gut had been piorced in numerous places by the long fliridd roorm. In most cased, however, in which worms have been found in the cavity of the abdomen, thiey are supposed to have escaped throagh holes in the stomich, which miny hive been produced by the siction of thie gustric juice aftor death.

The cause of the presence of worms in the alimentary canal hat been a matter of dispata. Their growth is evidently favoured by an unhealthy condition of the stomach: and bowela, and particularly by a feeble or disordored state of digestion. Hence persons of sedentary habits, of scrofulous tendency, and of general bad health, are apt to be affected with them. It is supposed that over-loading the stomach beyond the powere of digestion is favourable to their growth. The use of unripe fruits and raw vegetablem, and indigestible substances generally; predisposes to worms; an well as bad bread; spoiled cheese and meats, the flesh of diseased animals, and the use of bad water: It has been observed that they are most abundant in moist countries, and during a long prevalence of warm, damp weather. Children, after weaning, and up. to or about the age of puberty, are more frequently afflicted with worms than either very young infants or adults, probably owing to the nature of their diet.

Treatment.- In treating a patient afficted with worms, we have two objects in view-first to get rid of the worms already in posseasion, and, secondly, to prevent the occupation of the bowels by a fresh crop. In the first place, in order to dislodge the worms, we may give a dose of India Pink and Senna Tea (the former is commonly called Pink Root, but, in reality, the whole plant is used) mixed together; this may be given in the morning before breakfast, and repeated every second morning for two or three times. In most cases, these will be sufficient. Where an additional anthelmintic is required, turpentine has been found very efficacious.

To prevent a reproduction of the worms, when the canal is once cleared of them, it is necessary to attend to the food and drink of the patient; and, if the digestion is feeble, to assist it by means of tonic medicines, and suitable food and exercise. Indigestible substances, and unwholesome food of all kinds, and bad water, are to be avoided. As tonics, Infusion of Geitian, Cascarilla or Colomba, or of all these combined, with the addition of Bitter Orange Peel and a little sugar, will be a useful preparation, or the patient may take the Tonic Mixture, No. 11. Acetate of Iron, with Infusion of Peruvian Bark, will also be useful: It is well to add half a teasponful of bruised Carraway Seeds to the Senna and. Pink Root to prevent griping. A little, Milk of Sulphir, taken every morning fasting for three or four mornings, is saia to be very useful as a remedy for the thread worm. The long thread worm was formerly supposed to be very rare, but this has been since found to be a mistake; the fact being that, on account of its small size, it was frequently overlooked. It is stated that in the London Hospital during one winter, this worm was found in almost all the bodies carefully examined, both of persons destroyed by injuries, and of those who died of disease.

The broad tape worm is said to be found only amongst the inhabitants of Switzerland, Poland; and Russia, or in persons who have been in those countries; the common tape voorm is met with everywhere. They occur in childhood, but more frequently after puberty, and are very rare.in old age Females more subject to them than malea. They
are not very common in Caneda Tepe worme often oxiat in large and tangled bunches, so su to interfere mechanicolly with the proper parformance of the sections of the inteatines. It in mid that the tape worme cannot propagate in tho human intectines through their eggs, and roquiro to be tranuplanted to another animal, in order to become reproductive; so that, if the worm can be wholly expelled, thero in no danger of an inereane from itre eggs deponited in the bowola.
In some cases, the tape worm has long existed in the bowele without producing ahy prominent symptoms ; but it generally occavions great discomfort, and sometimes matorislly damages the health. Profeseor Wawruch, of Vienna, who, during a period of twenty yeans, had witneesed 206 cases of tape worm, gives the following sccount oin the ymp-toms:-Dall pain in the fareperd; giddiness; buxxing in the ears; dullness of the eyes, whicfi. rospasmodic movements of the elling eyclids ; dilated pupila; freq alternate paleness and flushing month ; emaciation; alterinte lowe and liar movements of the nose por particular articles of food; offensive excess of appetite; cravin, breath ; furred tongue; grinaing of a feeling in the morning as of $a$ swelling of the belly; shooting pains; a malioration of all the symptoms foreign body moving in the bowels; ; read, and coffee. The most cerunder the use of farinacious food, ho the worm, which are either passed tain sign is the discharge of These joints usually exhibit signs of life when alone or with the stools. . . . they arrot appear. Tape worms have the power of 'retaining their p pac to the mucous coat in the bowels, possibly in consequen continue for years to harass the by means of suction. They ot to time separatod joints, or even large patient, who passes from thou getting entirely rid of the troublesome portions of the worm; with or affection, according to the observations of animal. The duration of fow months to thirty-five years. It is conWawruch, varies from the head of the worm should be expelled, as sidered important thai is no certainty that the evil has ceased. Whatuntil this happens, ther forlow, much pain is often experienced by the evermethod of cure is iollowion of the worm, which is ascribed to the patient just before the expuusimal under the influence of the medicine. violent movements of the sest the potiont by a somewhat restricted diet It is deemed best to prepare use of the modicine, which should be given upon the day preceon an empty stomach.
in the morning The medicine most relied on for the cure of tape worm is oil of tur-
The medicone mont ritioners have given it in very largo doses-from pentine. Some prac two fluid ouncees, followed in two or three hours by half a fuid ounce tor oil. Dr. Know, who had the opportunity of treata fing numerous cases of tape worm among the British troops at the Cape of Good Hope, stateses that such large doses of turpentine are not necessary. He found that a dram or two of the oil, given with a little water, morning and evening, for three days succossively, was generally sufficient to. destroy the worm; even in the most obetinate cases, and without the
use of purgatives, though it was consídered advisable to give a littlo cantor oil each day about noon.

Castor oil, although is usefil and very valuable medicine, is one that many people have a great dialike to. By mixing castor oil with the yolk of a fresh egg-aiay the yolk of one egg th an ounce of oil-t may be afterwards mixed with water to any extent desired; the addition of a little sugar and a little grated nutmég will make a mixture so pleasant that no child will object to it.

## MEASLES.

This is a contagious disense, characterised usually by fever, cough; and a rash upon the skin. The disease commences with feelings of lassitude, chillinesis, aching in th limbs, followed by a frequent palse; heat and dryness of the skin, b dache, redness of the eyes, lossey of appetite, furred tongue, sore "throav, speezing and discharges. of tears, huskiness of voice, cough, and sometimes tightress of the chest and shortness of the breath In some cases, pains in the stomach, nausea, and vomiting. Th young childrert, convinlsions are not unfrequents particularly during the time of teething. There is considerable variety in the violence of the disease, and in the number of the symptoms. Occasionally there are nothing more than the ordinary symptoms of moderate catarth, with little or no fever; while in other cases the fever is high, and there are symptoms of bronchial or pulmonary disease. The symptoms usually increase in severity for two or three days, till about the third or fourth day the rash appears. Sometimes, however, the rash is considerably longer. before it makes its appearance.

The rash usually appears first upon' the face and neck, they upon the body, and lastly upon the limbs ; sometimes, however; it appears upon the body or limbs first. When at its height, which is usually úpon the second or third day of the eruption, there is frequently a troublessome itching and heat of skin. Sometimes the cough begins to abate on the appearance of the rash; occasionally the voice will be quite lost for two or three days, and the patient can only speak in a whisper. About the eighth dây of the disease, or the fourth of the eruption, the symptoms begin 'to decline: In some cases, however, the whole duration'of the eruption does not exceed a day or two, and in others it lasts for a week of more. The red colour of the eruption gradually gives way to a dirty yellowish hue, and the eruption dries up, and separates in fine scurfy scales. The falling off of the scales is usually attended with a little itching.

Occasionally, instead of the symptoms diminishing at this stage, there is, strong evidence of inflammation of the bronchial tabes or of the lungs. This is the greatent danger of meisles, and most frequiently ariees from bad nursing the patient having been carelessly exposed to cold. Instead of inflammation of the chest, diarrhces not unfrequently sots in, which, when moderate, is sometimes a fivourable sign, but it is soimetimes obstinate ard tronblesome. Sometimes exposure to cold will drive in the rash, and the consequences are apt to be pains in the

## ginitaí faynty pixgicians.

bowels, diarrhoes, hortness of breath, drowineqs, convulaitns, or aigna
of great prostration. . Measles occutionally appear of a depraved istate of the constitution, kind may sometimes aribo the typhoid condition, or the accidental with a strong prediaposition conjunction of some powerfull frequeritly they are the result of peculiarity of the meades. But more frequenily in the cause of the disease. feebleness of the pulse, the breath dency to delirium, stupor; or other nerving and then disappearing; and apt to be irregular and partial, appearing ackish colour. The abdomen the rash is often of a livid, purplish, or typhus, and the contentis of the and brain are affected as in maignan the patient survives the immediate chest are similarly attacked. Whan the is still liable to be carried dangerifroin syncope, coma, or as or obstinate bronchial disease which off by the exhausting diar of the dark colour of the rash, this vatiety of remains. In consequence of the dark This state of the disease is formeasles has been called black misastes. . This ata tunately rare.

But measles are liable to be complicated, with other cgmplaints, and inflammation of the bronchiat tubes, of the lungs, or of the boweles Sometimes measles occurs at the same time with scarlot fever.

Measleas occasionally has the effect of relieving or permanently displacing other diseases. It is, however, nuch more apt to leave other disorders behind it. : One of the mpst cqumon of thee is chronic inflammation of the air passages, with hoarseness ; obstinate inflammation of the eyelids, inflamamation and suypuration of the ears, fwelling of the glands of the throat, boils'in different parts of the body, and chronio diarrhoes are not uncommon. Meaglea is also well known to fayout the development of 'tubercles and scrofulous'swellings in thoseg predisposed to them.
Measles occurs at adl sedso of the year, but mone.frequently in cold weather- The disease is more common with children than with adults, although all ages are liable to be attacked, but it is one of those diseases that are seldom taken more than once.

This is one of those eomplainia nursing. The patient does not require wisk of taking cold, and where fortably warm. Where there is so severe, the patient, - particularly if a the consequences are apt to be so sevarefully watched. The mother or child, should be kept in bed, and "prevention is better than cure." Meinurse should bear in mind that "pro cesily be mistaken for Scarlet fever; sles without cough may sometimes eastor with Cough has been taken-for and Scarlet fever accidentally associated with Cough Measles.

Treatment:-At the commencement, a mild aperient mayy be given, consiitting of Rhubarb'and Magnexia, or Senna Tea or Tartarized Sodis, with a little Ginger to provent griping. Soothing drinke, fuch as Gruel, Barloy-Water, Linseed Tea If the cough is tinpublesome; the same-mig
ture regommended nnder the head of "Whooping Cough" may be given, or the ollowing: Take a new-laid egg, place it in a tes-cup, cover it with lemon juice (squcese a lemon over it), let it stand till tho shell is dissolved; add an ounce of Honey, and beat the whole up together, $A$ quartior of an owncs of Ipecacuania Wine and half an ounce of Paregoric may be added. A teaspoonful mat be taken for a dose for a. child of six or eight years old, and smaller dones for those of younger ages. Or thapatient may take the Cough Miecture No. 10. As tho patient progrelioss towards recovery, he may take Bread Puddings, Rice, Sago, Chicken Broth, followed by boiled Chicken and boiled Mutton. Benefit. may frequently be derived from bathing the patient's feet in hot witer, but they myst be rubbed dry afterwards, and wrapped up in warm flannel, or covered with warm woollen socks.

Attempts have been made to produce a mild form of Measles by means of inoculation, in the same way as, before the discovery of cowpox, people used to inoculate for small-pox. We are told of an instance in which the operation was performed in eleven hundred and twentytwo cases, and failed only in seven cases out of a hundred. The disease that resulted was mild, and in no case fatal. On the seventh day after inoculation, the fever appeared, on the ninth or tenth the eruption, on the fourteenth the skin begian to peel, and on the seventeenth, the patient was quite well.

## SCARLET FEVER.

Scarlet Fever was long confounded with Measles, and, even when found to be a distinct disease, was believed to be merely a variety of Measles. Dr. Withering has the credit amongst British physicians of being the first who clearly and fully pointed out the difference between the two diseases. Most authors describe three varieties of Scardet Fever, the simple, the anginose, and the malignant. But the fact is, that though cases are not unfrequently observed in which the characters of each variety are tolerably well marked, yet it very often happens that they are blended together, so that it would be quite impossible to determine to which of them a particular case might belong. The disease is casentially the same in all its varieties, and prodnced by the same cause.

Scarle 6 Fever is highly contagioug, and, when severe, is a most dangerous disease. It usually commonces with-headache, sore throat; redness of the eyes, sometimes with a feeling of languor, and weariness, with frequent pulse, hot, dry skin, followod by thirst. Sometimes, also, at the commencement, there are nauses and vomiting. In different cases there is every variety in the severity of the symptoms, from a mildness hardly amounting to disease, to the highest point of danger. On examining the throat in most cases, it will be found inflamed, and frequently swollen, and the tongue is also frequently red and inflamed. The rash makes its appearance usually on the second day of the fever, but sometimes it is the first symptom noticed. It generally appears first upon the neck, face and breast, and from thence it spreads over the whole body.

The fever does not abate upon the appearance of the rash, but con-

## ginta's TNILT PEYBICLAY.

tinnes with rarious degrees of violence throughout its progrese. The poleo is usuanlly very froquent, much: more so than in lebrilo divemes genornilly of the mmo degree of violence. It Li often 120 or $130 \mathrm{in}^{2}$ minuta and sometimes more frequent still. The skin in burning hot.

- The bo vols are frequently confined, but cometimes dianrthose occuras in the advancod stage. Sometimet, aleo, the stomach is irritable, but this
is not a common tymptom.
The afiection of the throat, in some careos; never exceeds that alroendy noticed as occurring before the appearinnce of the eruption, but very often it becomes the mont prominent and diatresaing symptom, being attonded with swelling within gnd withont, painful wral owing, and sometimes ahortness of breath. The complaint usually pluns its height from the fith to the ninth day; when, in favorable capse, all the aym. toms begin to decline: The rach fades, the heat of the skin diminishes, the pulse becomes slower and fuller, the eoreness of the throat abates, and the tongue becomee clean, Frequently, however, remaining reddish for a time. Sometimes the amendment is accompanied by a profuse perspiration, or by diarthooa, but both of these are frequently absent;
wut the course of the complaint is often much less favourable. From the beginning to the close it is not free from danger. Desth sometimes takes place in the first stage, from the overiwhelmingiforce of the sh dok upon the nervous aystem, and at any subeequent period; the patien is liable to the same result from eoms or other cerebral affection. Inflam. mation occasionally attacks some vital part especially one of the serous membranes, with fatal effoct. Disease of the stomach and bowels sometimes carries of the pationt, and sometimee affections of the throat have been the canse of death. Tho дatient may also sink froni debility consequent upon the malignair cinaracter of the disease, or the occurrence of ganigtene of the throat. Even aftor the patient has seemed to recovar completely from the complaint, when the only symptom remaining is a littile weakness, the feet will sometimes suddenly begin to swell, general dropey will rapidly set in, and in forty-eight hours the case will frequently terminate fatally:

It is certain that cases of fever with sore throat sometimes occur during the prevalence of Scarlet Fever, having all the iymptoms, and running the exact course of that-disease, with the single exception that the eruption is wanting. It is even statied that such cases are capable of imparting Scarlet Fever.
Few diseases leave a longer train of ovils behind them than Scarlet Fever. Among the most common and troublesome, are the abscesses which form in the vicinity of the glands of the throat and at the angles of the jaws; sometimes the discharge of pus from theee sources is morie than the weakened system of the patient can bear, and, after having survived the fever, he dies of hectic. At the best, they greatly protract convalescence, and the constitation is long in recovering its usual strength. Damp, bedly drained neige scarlet For found. The disease attacks all ages, the worst canes of Scarilot rever tiable to suffer. As a general rule, a person
only taken the disease once in his lifetime, although in rare instances, it may be otherwise. There is no complaint in which the renult is mare uncertain than in this. Cases apparently of the mildest charactersomotimes assume a most malignant appearance, and patienta die suddenly When supposed to be quite free from danger; while, on the other uind, csses apparently desperate sometimes end favourably. The disease is generally dangerous in pregnancy.

Trealment.-If there is mach pain in the head and throbbing of the temples, with sore throat, great relief will be derived from putting a few leeches on each temple, and also on the throat, the number to be regulated by the intensity of the complaint and the age of the patient. This may be followed by a mild aperient, and the patient had better go to bed. If in winter or cold weather, a little fire may be kept in the room; to cause a draught, and keep the air purified if in warm weather the window may be kept open.. The patient should only be lightly covered with bedclothes, and should be aponged, several times a day, with vinegar and water; one part of vinegar to eight or ten of water. Rags dipped in the same may be laid over the forehead and head, and changed frequently. If the patient is feverish, cooling drinks of barley-water, flavoured with a little lemon, will be relished; and the following mixture may be taken: say two tablespoonfuls every three or four hours; Dituted Sulphuric Acil, une dram; Sugar, one ounce; Infusion of Roses, half-a-pint. Should it not be convenient to'get the Roses, the acid may be given in Mintrian

Should the throat be troublesome, the following gargle may be used : Infusion of Roses or Mint Tea, half-a-pint;, Nitré, two drams; ;or, Sage Tea, half-a-pint, Nitre, two drams. The throat may be gargled several times a day, if necessary. Some persons are fond of giving emetics on all occasions, and at all times and seasons. Sometimes they are useful, bưt as they reverse the natural action of, the stomach; the less they are indulged in the better. . It is usually better when there is any nausea at the stomach, to take frequent small effervescing draughts (say ten grains of Carbonate of Sida and six grains of Tartaric Acid, dissolved in half a wineglagsful (tor), which will soon settle the stomach. The bowels should be ke Ay open when required.
Tha p the patientis feverish, should consist of oatmeal gruel, barley-w, rice, corm starch, and bread puddings." As the patient implutacircken and mutton broth may be added, changing gradually to beef tea, boiled chicken, and boiled matton.:

## NETTLE: RASH,

This is a non-contagious affection; called; the Netile Rash, from the reddish patches of swelling which mark the disease, resembling those produced by the sting of nettles.' There is usually a state of feverigh excifement in the system a day or two before the rash appears, which subaides on the appearance of the rash. Being attended with excessive itching, it causes the patient to rub or scratch the skin, and thus very mach to increase the eruption, which will often, under this kind of iry-
ation, exténd iteolf far beyond ith original boundariea. It may attiak any piart of the body, but in most common upon the inaide of. the fore arme, and about the shoulders, loins and thigho ; mometimes it mikos its appearance first on the body, and sometimee, but not often, attecks the facc. The eruption in not constant, but comes and goon irregularly; gonerilly being worrt at night: The swellinge sometimes leat only a fovir minuten, at other times for several hours, and on diapppearing in one plece, often roturn in another.
In many caces, the eruption makes its appearnace without provioum fever; eppecillly when the diveave proceede frim somethin'g tafien into the atomiach. In such careen, an hour or two after the mubatance has beon awallowd, pain in the atomach, with nauiee, anxiety, and hoendache come on, and are soon followed by the eruption, which is sometimee very violont. The face, nock, and chent, sometimes oven the wholo surfice of the body, are much swollen, with considerable rednoses, interruptod here and there by single or clustered swellinga. There is heat, itching, and tingling of the okin, and oppressed breathing, which cometímes almost threatigns suffocation. This state usuilly only continues for a few hours, after which the complaitr gradually nubsiden, and torminates usually in one or two days. In nome cases there is only rednets of the skin without the wheals. In these cases, the symptoma usually disappear very soon after the stomach has been completely evacuated by means of an emetic.
Occasionally acuic Nettle Rasih assumes a decidedly intermittent char racter, occurring in regular paroxy yant every day or every other day, either as an attendant on intermittont fever, or it an original affection.
In the chronic form there is no fever, and the eruption is not conintant, but appears and disappoars irregulatly; being sometimes abserf tor a considerable period, and returning from slight causes, as vialent exercito, or indulgence at the table. The wheals are usually whitioh, and less apt than in the acute form to be surrounded by a red efflopescence, thouge: attended with the stinging, itching, and tingling sensations charnoteriatic of the disease. The duration of the complaint is very uncertain, sometimes not exceeding a few dayk, and sometimes lasting for mopthi or yeara.
Occasionally"the wheals increase rapidly, and attain a considerable magnitidede, forming tumours in the loins, limbs, ec., nometimes as broad as the hand, and interfering with movement. These tumouirs are sometimes hot, tender and painful, occur usually at yight, and subside after continuing a few hours, leaving behind them sensations as if the patient. had been bruised or fatigued. In other caises, the wheale, instead of leiting only a few hours or a dey, remain for two or three woeks after the rednets has dimappeared, retaining more or less of their characteristic monnation, and, at longth, gradually subeide. In one variety of the complaint; the patient suffers much from severts atinging pains is if needles were run into the alin, without any appeasance of rash, axcept an occarional erruption of wheals, which continue for two or three days, and then disappear, without any relief to the unpleasant mensations
The Nettle Rualh, though a very diagreeable and often troublesome
complint, is scarcely over dangeroum. Onoes of death have boon rocorded, when the diseave hes aricon from subitanoes takion into the stomach; but, in thoce cares, the ramh is only an outwand aymptom of the dirturbance within
Tho most frequent caunee of the Nettlo Reah are internal irritationa, eppecinlly of tho atomach and bowrele. It ofton accompanies toothing and the bowol complaintie of children. Acids and other irritating mattern in the atomach froquontly occasion ith Cortaiń kinde of food have boen long known to produce it in particular conatitutions ; much as lobstera, crabes, thrimpe, and more oupocially muaclet. Salt and amoked fith have been iccuived by come writorr ; and it ioems that finh are more poiconous at some scomons thain at others, and that some parte of fith are worie than other parth. Pork, muabrooms, honey, ontmoal; bitter almonds, and groen cucumbers have aleo been ncoused. One American anthor states the worst cave of Nettle Rach he ever sam, occurred in a voman from eating rapberriea. He saya" "She had beon twice before attecked in the seme manner, from the samo cause. The face, neck, and oxtremitios, were greatly wivollon, and the respiration in tho highest degreo embarrusued; but immediato roliof was obtrined by an emetio of Ipocacuanha" In this cuso probably the "itatient had partaken immoderately of the raspberries, or eleo the wis poculiarly suiceptible to their influence. (I once knew a-lady who could dot enter a room containing. sweet peas without fainting. It wru not noteseaing that she should see them, the amell was sufficient) Cortain medicines aloo occaionally produce it, among which are Valerian, Copaibe, and Turpentine. This susceptibility to particular kinde of food is not general, but confined ta individuals ; the food that will produce it in one person will not generally produce it in another, each person being liable to be affected by zome special substance.
Overexercise, strong mental excitoment, indulgence in rich and highseaconed food, and intemferance in drinke, sometimes produce attacks of Nettlo Rach. So also will exposure to sudden ohanges of heat and cold. The dissase attricks all ages; but it is most common in infantis, and in young persoons of the canguine temperament, and women are more liable to it than men, probably becauee their akin is more delicate.
Treatment. $\rightarrow$ In infants and young children the complaint may generally be got rid of by mild doses of Magnesia, or Magnesia and Rhubarb, repeated daily for tro, three, or four days. When it is well kniown that any noxious substance has been taken into the stomioh, a mild emetic of Ipecacuanhh, administered before the laxative, will be beneficial. In grown porcons, in chronic caseen, particularly in those persons who are subject occasionally to returns of the complhint, I have found the most docided benefit from small doses of Bicarbonate of Soda; say from five to ten graing, taken three times a day in a little water, or about a wineglesuful of Infusion of Cascarilla Bark. Whon pervevored in sufficiently long, esy for three or four weeka, I have not only never known it to finil, but I have known in como onvos youris to paes away without a return of the complaint. Warm bathing will sometimes. be beneficint; and whero the irritation and itching havo boon very distreesing, I have known

## marra's pamint paniochar.

epopging the body with Morphia diviolvid in warm walar (aboat a grain ing will be folt at funcen or water) to groidea, and a foelin of comert is the result. But, in onder to awre the complaint, intornal remelient abeolutoly nocemary.

## RINGWORM

This is an eruptivo diamese, which is found ocsetionally on the feco, neck, arms or shundiders, bot most frequently on the head. The dinonse usually, occurs in oircular paloches which appears to increase in ringe or circlet, whence the nema. Thie patch is componed of littlo revioles, reddor in colour thin the natural dain. These vecicles usually break in about three or four dayi, and form little acabi, which dry up and fall off. The vesicles, howover, are very apt to apreed, and, if noglected at the commencement, may become very troublocome to eradicata. Ringworm in highly contagious; it is frequently propagated by childrien at school woering each othors' caje, or by uaing the samo. comb; salso, nometimes, it may be triniferred from one part to angther of the same child from icratching or picking the original patch.

When the Ringworm in frrst diecovered, the hair on and around the part should be olipped quite close with a pair of aharp acissors. The place ahoutd th on be caresully wahod with a little soap and warm water, on a piece of not fiannel; then dry, each little vesicle (or pimplo) should be touched with a drop of Muriated Tincture of Iron, (Tinct. Ferri Mur.) on the point of a camel's hair brush, or the point of a small feather. This should be repeated every morning till the divease disappears. I have never known a case resist this mode of trentment: A cap should be worn constantly, so as to prevent any irritation to the part, and also. to prevent the child rubbing or scratching it.

## SCALD HEAD.

The eruption appears much more frequently on the scalp than eleowhere ; but it occasionally appears also on other parts of the body, an the face, neck, limbs, sc., to which it is probably generally trinsferred oither from the head by the nails of the patient, or from contact with some other person.

Tho disease shows iteell frst in the form of apecks, of a yellow colour, like minute crusts, scarcely rising above the surface, and appearing as if set in the skin. There is usually little rednese about them. They aro scattered irregularly, without any particular arrangement, frequently permanently datinct, but somotimes so crowded an to cover portions of the surface completely. They are generally seated at the roots of the hairs, one of which passes through the centre of the crust. The eruption is attended with more or leas itching. When the crusts are numerous, they often meet at the onter edger so as to form a continuous incrustation of greator or less extent. Sometimes the whole scalp is covered, as by a clowely fitting cap. If permitted to romain undisturbed, the crusts continue to adhere for months or yeara; but undergo a kind

## Rytitis Pakily piytioling.

of divintogration on tho surface, axchanging their yollow for a whitien colour, bocoming brittle, and breaking Into mmall powdery A Mymonta The hair upon the dieomod murfoos, in this advanoed ntago, gonerally Salla ; and, eifher none appears elterwarle, or that which in produced in of an altered charecter, being downy and dettitute of colour.
When want of cloanlinew exinte along with the direeso, innocts are oton generatod beneath the cruste, intense itching is excitod, and the patient is unablo to revist a propensity to scratch the parts, ,omotimes even violontly, thus toaring of the scabi, causing bleoditig and excoriated spots, and adding groaily to the inflammation. In thin state of the ncalp there is urually an axtromoly fotid odour. With proper clemals nees, and upon the romoval of the scabe, the odour is lows cinagreeable but atill nuusooum
The disease, when long eatablished, is thought to retard the devolopment of the yystom, and to have a debilitating offoot upon tho intolloe tual faculties. A tondency to scrofulous diseaso is also oocasionally ahown, and ite development in fivoured by the eruptive affection. Tho nails, in old cases; are said to be sometimes thickoned, elongatod and roughened, and to become of a yellow colour.
The duration of the complaint, if left to itteif, is uncertain. It may continue for many years a nource of much distress to the patient and of dieguist to thone about him ; but it in seldom, if ever, directly fatal. When it ends favourably, under proper treatment, new crusts are no longer formed upon the removal of the old ones ; pustules cease to show themeolvei, and the akin, though it may have been apparently disorganized, returns graduully to a healthy condition, with only some redness left, which ultimately diapppears. Tho hair, however, is nometimes never reproduced, and when it does come forth, has unually for a long time an unnatural appearance. Still this is frequeutly restored in time, especially when an early cure has boen effected.

The general health of the patient should be attended to, and if there should be any evidence of a scrofulous taint in the system, the remedies recommended in treating of that diseaso should be administered. But no remedy that in not directly applied to the part can have any influence in curing the diveave.

Treatment-The hair should be first removed from the part affected by cutting it close with a pair of sharp scissorsi The acabs must then be removed by:means of poulticese of linseed meal, boiled and mashed, carrotes, or bread; (they whould be applied warm and changed as oftan an they get at all cool or by fomentations, and afterwards by frequent making with soap and warm water. The flaninel used for thewo pur. poves ahould not be used for any other purpose, as it. would be sure to apread the infection. The scalp should generally be washed with soap and water every day or overy second day, so that the applications may have a fair chance of reeching the diseased surface.
Many applications have been used for the cure of Scald Head One of the firmt objects to be attained is the removal of the hair ovor the divensed surfice. If the hair doen not come awny with the reaber aftor the poulticiag, the following ointment may be applied: Carbonate of

Soda, one dram, froch lard, oiv anices this mas be rubbed on the part with a bit of solf Rannol for ton or fitoon minnton overz day, till the hair oomes awray. Aser the hair is retuoved, a plactor of Tar oindmone ahould bo appliod and kopt on continually. It ahould be remexied every econd day, and the old ointmont cargully whened of what and warm waicr bofore the new platator is applied. Should facier bitic mont prove incumbient of itcoll to cure the difoaro, an equ, i, antify pt. Sulphur Ointmont may bo sddod to it. Lotions of Sulphurv, ferotth, Ohloride of Soda, and Ohloride of Lime, Sulphate of Ison, Bu, whats of Zinc, and Sulphate of Copper, and various.other preparations hy vo beon uned. A linen cap should bo constantly worn to protecfitio hiead'ss well from the thmouphge as from the fingers of the patient.

## INCONTINENCE OF URINE.

Involuntary dincharges of urine at night is a frequent and very diaergreeable affection, it is mont common in young children, and is apt to cease ot or before puberty, but is occanionally prolonged to a later age. The dimaliargo curing aloep sometimes occuri in consequence of dreams, but moro froguently is altogether involuntary, without the leant convelousncat on the part of the patient, and dependent colely upon the relare. tion of the sphincter under the atimulus of the urine. Occacionally the incontinetce is experienced also during the day, wo that the patient cannot rotain his urine ais long as persons in ordinary health. This affoction io often attended with an acrid condition of the urine, whioh is highcolonted, and londed with uric acid in molution, or even with sediment of the acid or its nalts. In this case there is a combination of ixritation of bladder with debility of the aphincter. More frequently, however, the urine is pale and watery, and wecreted in unusual quantity. The aftootion is adid somotimes to be hereditary, or at least it occurs freqnently in several members of the same family.
I have often found eotintry people under the impreesion that that children became affected through playing with and handling efie blowoms of dandelion (which is a powerful diurefic), the bright ydio flowers of phich are usually very captivating to children. Very likely' the handling and melling the dandelion, and the sprawling about on the damp grass may together have some effect.
Trealminn--Our object, in-these cises, must be to improve the health, and strengthen the general tone of the syatem. For this purpose, wo may give the patient tonics, such an infusions of Gentian, Cascarilla, or Colombo, or all combined, with mall dosei of Acetate or Sulphate of Iron, with cold bathing. Friction over the body, with a rough towel, for ten minutes atter the bath, will be beneficial, and, attention ahould be paid to the diet, which should be nouriching and easy of digeation. Occasionally, benefit will be derived from taking one or two grains of Extract of Henbane (this dowe for a child of ten years old) at bedtime, which may be repeated if found of adventage. The child should be allowred but little drink in the evening, and that not of an scid nature; and he ahould carefully and completely empey the bladder before going to alleep.

## GREENSICKNESS (Chionooio)

This is a complaint chiefly affecting girls, and occanionally young married women. The skin, lipa, tongue and mucous gurfaces generally are pale, and the whole surface of the body appeare bloodlese. Sometimes the face is yellowish, and ham a waxem aspect. Sometimen the face looks swelled, the atin appoars tranipare th, and the lege and foet swell. The patient is usually feeble, and cannot bear much exertion; the circulation is weak, and palpitation of the heart is a frequent symptom. The patient frequently complains of headache, dizsiness and faintness, pains in the head and contiveneis. The appetite is irregular, the breath offensive; the complexion gradually becomes of a yellowish or greenish hue, and dark circles frequently form around the eyes. The immediate causes of this disease are usually want of air and exercise, unwholesome or indigestible food, grief, disappointment, in love, and mental anxieties of all kinds. Organic diseases of the stomach, bowels, liver, spleen 'and heart, sometimes predispose to the complaint, also missmatic fevers, and chronic disease of the spleen.

Treatment--Attention must be given to the cause of the complaint, and the proper remedies adopted. If the complaint arises from a disordered state of the stomach and bowels, the following pill will be of benefit:

> Socotrine Aloes ............................ One Dram. Powdered, Gum Myrrh...................Half a Dram. Extract of Henbane... ....................Half a Dram. Oi of Cloves...........................ifteen drope.

Mix and divide into $\mathbf{3 0}$ pills, two of which may be taken every night, or cevery second night.

If the system generally appears out of order, the following maxy be given with advantage:-

| Steel WineTincture ofTincture ofTincture ofSyrup:....Water.... |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Mix together. A teaspoonful may be taken in a little water three times a day. Sponging from head to foot every morning when, the weather is not too cold, and rubbing dry afterwands with a rather rough towel; plenty of air and exercise, and a good nourishing diet, will be of .advantage.

Sir Henry Marsh recommends the following mode of taking iron :Sulphate of Iron, dried and powdered, from one to five grains.
Tartaric acid, ten grains.
Powdered White Sugar, half a dram.
This powder should be kept in a dry place. When it is to be taken, fifteen grains of Bi-carbonate of Soda is to be added; and the whole

## sMITH'S FAMILT PEYSICINY,

diemolved in a wineglampatil of water, and taken while effervescing. Ho also adds :-"There are individual constitations so intolerant of from, 20 peculiarly affected by it, that we are compelled atiogether to forego the administration of this uneful remedy. Sóme patients cannot endure it, excopt in quantitites insufficient to effect a cure. Wo are in consequence compelled to look about for a subotituto, and the most efficient one is probably Biomiuth Under the use of this metal, gradual and satinfactory cures have resulted. Carbonate of. Ammonia and the ialta of Perv vian Bark are aleo of value."

## ST: VITUS'S DANCE (Chorea Sancti Viti).

In this disease, there are involuntary muscular contractions without loss of consciousness, and without a complete loss of the power of the will. The contractions are : nomewhat peculiar, not being rigid like thowe of Tolanus, nor so quick and jerking as those of ordinary convulsions, but rather resembling voluntary movements, for which they may eavily be mistakion. The name of the diseape is said to have arisen from the curstom, formerly provalent; for those afflicted with the disease, to journey to the shrine of St: Vitus, near Ulm, in France, where they were supposed to be miraculoualy healed.

The complaint usually comes on gradually, and is often preceded by symptoms of derangement of the digestive organs, such as irregular appetite, constipation, swollien abdomen, \&cc, which are. also sometimes sccompanied by depression of spirits, and other signs of nervous disorder. The first unusual movements noticed are frequently in some particular part of the body, as the face, the shoulder, or the hands; the patient making ludicrons grimaces, or shrugging his shoulders, or incessantly working with the fingers, and perhaps incurring blame for behaving rudely, or acting absurdly, as if the motions. were voluntary. But they are sodn found to be beyond the control of the. will. These irregular muscular actions increase, and at length the whole body becomes involvod. Head, trunk, and extremities are in almost constant motion. The features undergo various whimsical distortions, as if the patient were making faces for the amusement of the spectators. The head is moted grotesquely upon the neck; the limbs appear to be twitched about, and the muscles of the trunk pull it first one way and then another, making the patient appear exceedingly fidgetty; without greatly altering his position.
If any voluntary movement if attempted, there is a curious and often ludicrous mixture of the regular and irregular actions of the muscles, which seem to be influenced by two opposito forces; but unless the disease be very violent, or the object aimed at requires some nicety or steadiness of movement, the will is generally sulceessful in the end. Thus patients cannot use the hand in writing or sewing, but they can usually convey objects to the mouth, or move from one place to another, though in accomplishing the former object, the arm is jerked about in various opposite directions before it reaches the point aimed at, and in attempting the latter, the body often goes through numerous zig-zag
operations, advances with a sort of hitching gait; and as if one foot were dingged after the other, and the patient froquently falls.
The ianer muscles of the mouth and fauces sometimes participate in the disturbed action ; the tongue is rolled out of casionally between the lips ; the patient stanimers or hesitates in speaking, and sometimes even has a difficulty in swallowing.
In very bad casees, the patient loses the power of maintaining a atanding or even a sitting posture, and is compolled to lie in bed. One side is sometimes muchi more affected than the other. Usually, these involuntary motions cease during sleep, but not always. It has been noticed that the patient is generally worse when conscious that others are noticing him.
20str: Vitus' Dance is sometimes attended with headache ; the bowels are generally coninined, and the discharges often unhedithy. The appetite is changeable; there is no fever. It is a singular fact. that there is much less sense of fatigue from the incessant muscular action than would result from an equal amount of exercise under the direction of the will. The temper is not unfrequently affected; it is more capricious, excitable, or apprehensive than in health. The patient often weeps without apparent cause, or is gloomy or apathetic. The disease is npt unfrequently associated with hysteria, when it attacks females about or beyond the age of paberty. The mental disturbance sometimes amounts to delirium. Neuralgic affections are not uncommon in patients who have been labouring under chorea, and some authors have noticed a connexion between the latter complaint and rheumatism.
The cpurse of the disease is not by any means regular: Unider proper treatment, it may continue only a few days, or it may run on for months or years . There is reason to believe that when it commences young, a patient may eventually outgrow it, even without medical assistance, but it is thought, when long continued; to weaken the mental powers, and it is even accused of producing imbecility, epilepuy, and paralysis; but the probability is that these diseases, when they occur, are due to the same original cause as the chorea, and are not the resulls of the latter.

Chorea is sometimes confined to a single part, as the face, an arm, or a leg; and the patient, although well in other respects, is unable to prevent himself from making uncouth or ridiculous movements of this part, which subject him occasionally to inconvenience or mortification. This partial chorea is möre difficult to cure than the general, and frequently continues during life.
An unsteady, excitable state of the system is supposed to predispose to chorea, but in many cases it has appeared suddenly in persons previously healthy. A predisposition to the disease is said to be sometimes. inherited. No particular age is exempt from the disease, but it seldom. attacks infants or old people; the most liable are these between the ages of six and fifteen. Females are more liable to the disease than males.

The exciting causes are strong and disturbing emotions, especially terror; excessive excitement of all kinds, whether mental or bodily, and contequent overexertion of the facultios; various irritations, as those



