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CATECHISM

OF

HEALTH:

FOR THE

USE OF SCHOOLS,

AND FOR

DOMESTIC INSTRUCTION.

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TRANSLATED FROM THE LAST IMPROVED CERMAN EDI-TION OF THIS WORK,

By J. H. BASSE.

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** The FRONTISPIECE represents a Children in a loose Garment, such as all Children from the Beginning of the Third, to the End of the Seventh or Eight Year ought to wear.

TO SCHOOLMASTERS; ON THE USE OF

THE CATECHISM OF HEALTH.

WORTHY and respectable Members of Society, you love those Children that are sent to you to be educated, to imbibe such instructions and Doctrines as will render them

Healthy, Senfible, Virtuous, and Happy.

This Book teaches how Man from his infancy ought to live, in order to enjoy a perfect State of Health, which, as Sirach fays, is better than gold. You will, therefore, with pleafare, I hope, inftruct, your dear little Pupils in its principles; and as able and experienced Men, convinced that the mere learning of the Antwers by heart can be of no advantage to Children, you will have no objection to infiruct them after the following method.

r. The Chapter which is chosen for Instruction eught first to be read by the Master, and then by two Children that read perfectly well and diffirst; one of them reading the Questions, the other the Answers regularly and in order to the end of the Chapter; the Master, understanding thoroughly what has been read, explains its general import.

2. He then explains each Query and Answer particularly, and the meaning of the words and ideas. He elucidates Answers and refolves Queslions, consisting sometimes of more than one Sentence, in a concist, simple manner, easily conceivable by the intellects of Children. He convertes with them, and, in a perspicuous manner, by easy, simple, and slowly progressive Questions, inculcates the Truths and Doctrines contained in the Chapter.

The Queries and Answers ought to follow each other in regular and natural order, that the Children by their own judgment and understanding may find out and conceive

what is true and good.

After they are perfectly acquainted with the true meaning of one Query and Answer, the next is introduced, and so on, till they are made familiar with the true intent and meaning of them all fingly.

3. The Mafter then examines the Children through the whole Chapter. If he finds that they are well acquointed with its contents, the Lecture is concluded by repeating what has been taught, and by asking each child "What he or the remembers of it?"

4. The Waster then asks the following Questions, leading

to Answers different from those already given :-

"Which of you would now, after those falutary infiructions, do fuch or fuch mischief?"—"Would not you do
fuch a thing, so or so?"—"Would not you repeat such or
fuch a thing to your parents or friends at home?"—"How
would you contrive it, that such or such a culton might be
altered, or things done in such a way, as, from what you
heard just now, they ought to be done?"—"Do you know
any body whom you could benefit by acquainting him
with what you have learned to-day?"—"Which of those
excellent rules for your future conduct have you resolved
to follow?"

5. The fibjoined Observations will enable a Master posfessed of any judgment to explain and confirm many truths, that will be both instructive and pleasing to his Popils.

6. When, for instance, a Fever, Small-pox, Measics, Plux, or other Disease, rages in the neighbourhood, the Chapter that treats of those maladies ought to be frequent-

ly, and in preference of all others, read.

7. An hour, at least, twice a week, ought to be devoted to such Instruction, in order that the whole CATECHISM of HEALTH may be gone through twice a year, and the minds of the Children impressed with the true spirit of its dec-

In this manner, my worthy friends, I befeech you to infirinct your pupils; and if you do fo, reft affured, that the prefent, as well as future generations will be under obligations to you for their Health and Happine's; and the Almighty whose Divine Will it is that all Mankind should be rendered temporally and eternally happy through the knowledge of truth, and who leaves nothing unrewarded, will reward you according to your different degrees of Merit, in this and in the World to come.

FIRST DIVISION.

I. Of Health; its Value, and the Duty of preferring it, and of inflrutting Mankind, particularly Children, in thefe important Subjects.

JEAR Children, to breathe, to live in this world, created by God, is it an advantage? is it to enjoy happinels and pleafure?

A. Yes. To live is to enjoy happiness and pleasure;

for life is a precious gift of the Almighty.

Pf. cl. 6. Let every thing that has breath praise the Lord.

Pf. cxlv. 16. Thou, O Lord, fatisfielt the defire of

every thing living.

Pf. xxxvi. 5, 8. Thy mercy, O Lord, is in the hearvens; and thy faithfulness reacheth unto the clouds. They shall be abundantly satisfied with the fatness of thy house; and thou shalt make them drink of the river of thy

Pf. exxxvi. 1, 8, 9, 25. O give thanks unto the Lord, for he is good. To him that made the fun, to rule by the day; the moon and thars to rule by night; who gives food to all flesh: for his mercy endureth for ever.

Q. 2. What other proofs have we to shew that life is

A. The inding, or natural anxiety of mankind to

3. What must be the state of the human body the nabitation and flave of the foul, that man may enjoy a long, prosperous and happy life?

A. It must be healthy.

9 4. How elfe can you prove that man ought to be in a good flate of health?

A: By the commandment of God, viz. "In the fweat of thy face shalt thou eat bread." Gen iii. 19.

2 5. Can we possibly promote the person and leappiness of our fouls, if we do not take proper core of our bodies?

A. No. God has fo intimately united foul and body, that by a rational care taken of the body the happiness

and purity of the foul is increased.

2. 6. What is understood by a state of good health?

A. That the body is free from pains and infirmities, fulfils its duties cheerfully and with ease, and is always obedient to the soul.

2. 7. How does he feel who enjoys health?

A. Stong; full of vigour and power; he relifhes his meals; is not affected by wind and wea her; goes through exercise and labour with ease, and feels himself always happy.

2. 8. And what are the fensations of the fick ? Are

they like those we have described?

- A. By no means; the fick man feels himself weak and feeble; he has no appetite; he cannot work, nor brave wind and weather; he labours under continual anxiety and pains, and very few are the pleasures of his life.
- 2. 9. Can you children be merry and laugh, joke, and jump about, eat, drink, and fleep, when you are
- A. No. We can only do fo when we are in good health.

OBSERVATION.

If a child be present who was ill not long ago, the Master will take the opportunity of asking him the following question:—" You was ill; tell me, did you feel yourself so happy, so easy, as you do now?" To this a sensible child will answer, or will be taught to answer—" I found myself exceedingly ill, I could neither eat, drink, nor sleep; nothing afforded me pleasure or joy; I was full of anxiety and pains; but now restored to health, thanks be to God, I know it is the greatest good."

2. 10. The bleffings of health then must be very

great ?

A. They are indeed. Health is the most precious good, and the most certain means of enjoying all other bleffings and pleasures of life.

Q 11. What fays Sirach of health?

A. In the 30th Chapter, v, 14, 15, 16, he fays, 66 Better is the poor being found and strong of constitution, than a rich man that is afflicted in his body. Health and good estate of body are above all gold, and a strong body above infinite wealth. There is no riches above a found body, and no joy above the joy of the heart.

2 12. Cannot the lick as well as the healthy, enjoy

the bleffings and pleafures of life?

A. No. They have no charms for the fick.

2 13. Of what use then is all worldly happiness to him who is lick, and cannot enjoy it?

A. Of very little ule, if any.

Q. 14. If then health be the most precious boon of life, what duties has a man in that respect to discharge towards himself?

A. He must strive to preserve it.

- Q. 15. Is it sufficient if he take care of his own health?
- A. No. It is also his duty to take care of the life and health of his fellow-creatures.
- Q. 16. And what is the duty of parents toward their children?
- A. They are bound to take the tenderest care of their health and life.

OBSERVATION.

School-masters and parents ought to seize every opportunity of impressing on the minds of their children, the great importance of the invaluable blessings of health, and the consequent duty to preserve it, by innocent pleasures, conducive to a great accession of health. They ought, on the other hand, to point out the mournful instances of multiplied forrows and miseries which present themselves daily to our view, in the persons of the sick and diseased. 2. 17. Do they fulfit his duty?

A. Very feldom.

2. 18. Why fo feldom?

A. t. Because few of them are fensible of the real va-

2. Most of them are ignorant of the firméture and state of the human body.

3. Equally ignorant of what is conducive or hurtful

to health.

2. 19. What is the cause of this ignorance?

A. The want of proper instructions.

2. 20. But as God wills the happiness of all mankind, should they not be brought from ignorance to the

knowledge of truth?

A. Yes. It would be right, good, and dutiful to infirmed every body, particularly little children like us, and to teach us the structure of the human body, and the best means of preserving health.

Q 21. Is it not, therefore, your duty to pay the greatest attention to the instructions which you are now to receive, respecting the most valuable boon of life?

A. We shall exert ourselves to the utmost to under-

Rand and remember them.

Q. 22. Is it sufficient to receive those instructions,

and to remember them?

A. No. We should also strictly conform ourselves to

OBSERVATION.

At the close of 1791, when many, through ignorance, fell victims to the baneful influence of the bloody-flux, the Dowager Princess Juliana of Schaumburgh Lippe, first conceived the blessed idea of causing a Catechism of Health to be written and published for the use of Schools, and instruction of children.

This Catechifm, in an imperfect flate, appeared in 1792, yet eighty thousand copies of it were fold, and it was introduced into schools as a book of instruction.

II. Of the Duration of Life, and the Signs of Health.

Q. 23. WHAT is the usual period of human

A. Life is the best gift of God to man, who ought to enjoy it a very long time, and therefore live to an old age, as was intended.

Pf. lxxxx. 10. The days of our life are threefcore years and ten, and if by reason of Brength they be four-

OBSERVATION.

According to the ftructure of the human body, the long bones of the limbs confid till the eighteenth year of three pieces, that they may grow after that time longitudinally till the period of adult age; and this wife disposition in the structure of the body would be without defign, if man were deftined to die in his infancy. Befide, from the whole nature of man, it can be proved, that he is formed to live a long time, till-body and foul have attained their ultimate degree of perfection; till the body is wore out, and the foul has accomplished its deltination, then the one is to return into the bosom of nature, and the other into the hands of the Almighty, there to remain till the happy day of eternal blits. The tears of parents on the mournful occasion of the early demife of their infants, are therefore very

2. 24. What has God promised as the greatest earthly reward to those that honour father and mother, and keep his commandments?

A. That their days shall be long upon the land, which

the Lord our God gives them.

Q. 25. How long is man destined to enjoy health? A. He ought to live almost uninterruptedly in a perfect flate of health.

2 26. What epithet is applied to a man who only, at intervals, fuffers little inconveniences from a fhort illA. The epithet healthy.

2. 27. What epithet is applied to a man who is, not only weak, but also spends the greatest part of his life on the bed of sickness?

A. The epithet unhealthy.

2 28. What are the figns of an uninterrupted flate of health, enjoyed by a man at the age of maturity?

A. The fresh and healthy colour of his face, the quickness of his senses, the strength of his bones, and the firmuess of his flesh; large veins full of blood; a large and full breast; the power of breathing slowly and deep without coughing; eating with hunger, and digesting well; taking much exercise, and bearing continued labour without fatigue; sleeping quietly and soundly, and enjoying cheerfulness of mind and serenity of countenance; all denote an uninterrupted state of health.

OBSERVATION.

All aliment ought to confift of folid substances, adapted to the number and strength of the teeth; the teeth serve chiefly for massication, digestion, and, of course, the nourishment, health, strength, and happiness of man depends, in a great degree, on the massication of the solid part of the food, which is mixed with the faliva, and converted into a sweet milk like sluid, called chyle: it is, therefore, necessary that a healthy man should have a found fet of teeth.

2. 29. Can one always and folely depend upon these figure of health?

A. No. They are apt to deceive sometimes.

2 30. What must be done, in order, unerringly, to afcertain whether an apparently healthy man be so in reality?

A. The temperament, health, and virtuous or moral

conduct of his parents, ought to be confidered.

Q. 31. What ought to be the flate of health of the

parents of a healthy person?

A. The father as well as the mother ought to be firing and vigorous, not deformed, nor subject to such diseases as may descend to their children, viz. Consump-

tion, Epilepfy, &c. They both ought to have a good conditution, and the prospect of attaining old age in good health, and should be of a virtuous disposition.

2. 32. Why is it necessary for them to be virtuous?

A. Because the virtue of the parents are discovered in the children, and because virtuous parents encourage their children, by their example, to endeavour to become worthy and honourable members of society.

2 33. What then must be the disposition of those parents, who wish to bring up virtuous and healthy chil-

dren?

A. They must be virtuous and healthy themselves.

III. Of the Construction, or Structure, of the Human Body.

2. 34. I OW is the human body conftructed?

A. With infinite wildom and goodness, and in the most appropriate and perfect manner.

OBSERVATION.

A book of instruction for schools, on the admirable construction of the human body, and on the sunctions of its different parts, elucidated by correct prints, ought to be, and soon will be published, being as necessary as useful.

2. 25. What have we in particular to observe with

respect to the perfect structure of the human body?

A. That it is endowed with the greatest and most appropriate powers, tending to preserve life and health, to remove diseases, or to heal wounds.

2. 36. If the body contain any thing unnatural, or if it has been wounded, or otherwise hurt, so as to cause its functions to be obstructed, how do those powers act?

A. They operate more or less powefully to expel from the body all that is unnatural, or to heal its wounds.

OBSERVATION.

If a splinter sticks in any part of the body, irritated nature produces matter to expel it. If the stomach be loaded with bile, or putrid matter, nature strives to remove it by vomiting. If a particular sickly state of body should become dangerous to life, nature arouses all her energy to remove it; a shivering or heat, or a fever, will generally take place, by which nature attempts to concect the offending matter, or, what commonly happens, expel it from the body. If a person has broken one of his limbs, nature will fosten the broken ends of the bone, in order that they may knit without plaister or salve: but the previous assistance of an able surgeon is required to bring the broken ends of the bone in contact, and to secure them so, after which tranquillity and rest are necessary.

2. 37. Can the body, notwithstanding all those great powers with which God has endowed man, fustain any injury?

A. The healthy and vigorous man is very feldom

subject to any.

2 38. But as we, nevertheless, see so many objects of pity, what may be the real reason of their sufferings?

A. Weaknels; or the want of pure vital faculties.

2. 39. Is this weakness natural?

- A. No. Naturally man is firong, full of vigour and health.
- 2. 40. How have so many contracted this weakness?

 A. Generally through their own faults, or through ignorance.

2. 41. Is there not another particular reason why

men are fo weak ?

A. Yes. Their weakness has been hereditary, and transmitted to them from generation to generation.

9. A2. What must men do, that they may be less

exposed to fickness?

A. They must do every thing to recover their natural strength.

OBSERVATION.

By this strength, you must not understand a rude but a cultivated strength, when the body is accustomed to exercise, and is full of life and vigour. 2. 43. By what means can man recover his natural

A. By receiving a judicious and liberal education,

and leading a prudent life.

2. 44. By what particular means can a firong and

healthy body be injured, or rendered unwholefome?

A. By a bad education and corrupt way of living; by intemperance in eating and drinking; by unwhole-fome food and spirituous liquors; by breathing bad or unwholesome air; by uncleanliness; by too great exercise or inactivity; by heats and colds; by affliction, forrow, grief, and misery; and by many other means, the human body may be injured, and loaded with disease.

IV. On the Attending and Nursing of Infants.

2. 45. W HAT does the little helpless infant

A. The love and care of his mother.

2. 46. Can this love and care be shewn by other persons?

A. No. Nothing equals maternal love.

2. 47. Why does a child fland fo much in need of the

love and care of his mother?

A. Because the attendance and nursing, the tender and affectionate treatment which a child stands in need of, can only be expected from a mother.

Q. 48. How ought infants to be attended and nursed?

A. They ought always to breathe fresh and pure air; be kept diy and clean, and immerfed in cold water every day.

2. 49. Why fo?

A. Because children are now, at the time alluded to, more placid, because not being irritable, they grow and thrive better.

2. 50. Is it good to fwathe a child?

A. No. Swathing is a very bad custom, and produces in children great anxiety and pains; it is injurious to the

B

growth of the body, and prevents children from being kept clean and dry.

2. 51. Is the rocking of children proper?

A. No. It makes them uneafy, giddy, and flupid; and is therefore as hurtful to the foul as to the body-

2. 52. Do children reft and sleep without being

rocked ?

A. Yes. If they be kept continually dry and clean, and in fresh air, they will rest and sleep well, if not disturbed; the rocking and carrying about of children is quite useless.

GBSERVATION.

As the human foul in a state of infancy is disturbed by rocking, carrying about and dancing, fuch practices ought to be confidered as dangerous and er-

roneous,

The mother ought to play with the child in an affectionate and gentle manner; ought to give it frequent and bland exercise, and inftil gradually into its mind a knowledge of fuch objects as attract its

2. 53. Is it in general necessary to keep children quiet? A. Yes, it is.

2. 54. What is therefore very bad?

A. The making a great noise about children; and it is flill worse to frighten them.

2: 55. It is, therefore, not advisable, I suppose,

to frighten children into fleep?

A. By no means; because they may be thrown into

convulfions, and get cramps.

9. 56. Is it necessary or good to give children compoling draughts, or other medicines that tend to promote fleep?

A. No They cause an unnatural, and, of course, unwholesome, sleep; and are very dangerous and hurtful.

2. 57. How long must a mother suckle her child?
A. For nine or twelve months.

OBSERVATION.

In fact the child ought to be fuckled till it has two teeth in each jaw. Some children are fuckled for two or three years; a practice not only erroneous, but hurtful both to mother and child.

2. 58. What fort of aliment is prejudicial to the health of children ?

A. Meal-pap, pancakes, and tough, heavy, and fat

9. 59. What harm do they do ?

A. They obstruct the bowels; and childrens' bellies get, by those indigestible meals, hard and swelled. 9. 60. What food is most fuitable for children?

A. Pure unadulterated new-milk, and thin gruel: grated crusts of bread; or bifcuit boiled with water only, or mixed with milk.

D. 61. Is it proper to chew the food before you give

it to children ?

A. No. It is difgufting and hurtful.

OBSERVATION.

To fuffer children to fuck the mock-bubby, boate, &c. are very bad and difgulting customs, which occafion gripes, and therefore are dangerous.

2. 62. What is in general to be observed with re-

gard to the feeding of children?

A. That they be regularly and moderately fed, and their stomachs not loaded with milk or other things. It is, therefore, necessary to prevent people from giving children sweetmeats, or food out of leason: the feeding of the child ought to be entirely left to its mother.

9. 63. Do affectionate careful mothers actright

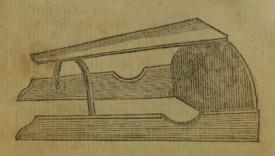
when they take their infants with them to bed?

A. No. It is dangerous and hurtful; children ought, therefore, to lay by themselves.

OBSERVATION.

In Italy, mothers who take their fucklings to bed with them use the following machine, which protects them from all injury and danger. It is called Arcuecio, and is 3 feet 2 inches long; and the head-board 14 inches broad, and 13 inches high.

B 2



2. 64. Is it necessary to keep infants very warm?

A. No. They must not be kept too warm. Q. 65. Is it good to cover their heads?

A. By no means; it causes humours to break out.

OBSERVATION.

From the hour of birth the head of a child ought to be kept uncovered. Mothers will find that even in the coldest night, when they lay their hands on an infant's head, it is always warm.

2. 66. Children are eager to stare at every thing, particularly at the light; what is to be observed with

regard to this?

A. They ought to be immediately turned so as to have the object in a direct line before them; they should never be suffered to look at it sideways, as that would cause them to squint

Q. 67. By what means is the getting of teeth ren-

dered difficult and dangerous?

A. By caps; by keeping the head too warm; by uncleanliness and improper food.

OBSERVATION.

Nature herfelf causes pains at teething time, and the child is afterwards the cause of many more. It may not be amis here to observe, 1. That pains and agonies are the first instructors of man; they teach him to avoid ills, and make him provident, compassionate, humane, and courageous. 2. Natural bodily pain, in many instances, and particularly in childhood, is less hurtful to man and his happiness, than the anxiety and mortification of foul which a child suffers that is irritated, put in a passion, or treated with contempt; and it is as bad to frighten children.

2 68. What is to be observed with regard to

making children walk.

A. They ought not to be taught to walk in strings, or chairs, or go carts, or be led by the arm; they ought to be suffered to creep on the sloor, till by degrees they learn to walk.

Q. 69. How can we best affist children in speaking?

A. We ought to pronounce the words to them very distinctly and slowly; first single sounds, and then easy words.

OBSERVATION.

It is of the greatest importance that man, from his earliest infancy, should be accustomed to a distinct pronunciation.

2, 70. What are the principal reasons why one fourth of the number of children that come into the

world, die in the course of the first two years?

A. Want of fresh pure air, uncleanliness, bad indigestible food, particularly meal-pap; the anxiety and misery of parents are also among the causes of the death of so many children.

V. Of the Treatment of Children with respect to their Bodies, from the Third to the Ninth or Twelfth Year.

OBSERVATION.

ROM the third to the feventh year the child has 20 milk teeth, and during that time the body is weak; the eare changed from that period to the twetch year for trong teeth. In the ninth

year the child has 10 milk, and 12 perfect teeths. In the twelfth year both fexes have 24 ftrong and perfect teeth, and not until then the body longing to receive its natural real ftrength.

2. 71. If man is to grow up healthy and frong,

how must be educated?

A. He ought to receive a liberal, judicious, and prudent education, in his infancy, as well as in his youth.

2. 72. Is this of fo much importance?

A. Yes; for upon that depends his health, fliength, and the happiness of his succeeding days.

2.73. What is understood by a judicious education?

A. That man be educated agreeably with the nature

of his foul and body.

2. 74. What is, therefore, necessary to be known that we may give a judicious education to children?

A. The nature of man and of his existence?

2. 75. What changes does man undergo during the

first nine or twelve years of his existence?

A. His body grows and acquires shape; his soul learns the use of the body; his senses, with regard to conception and perception, increase; and he is joyful and happy in company with those of his own age.

Q. 76. What does nature particularly attempt to

effect during infancy ?

A. The formation of the body.

2. 77. Is the energy of the foul, and the accomplishment of man, promoted by the perfection of the body?

A. Yes; the more perfect the body is the more perfect is the foul, and the more man is capable of promoting his own happiness, and that of his fellow creatures.

2. 78. Can the mind know the nature and structure

of the body without instruction and labour?

A. No; the mind must for many years, during the whole period of infancy, study to acquire a thorough knowledge of the use of the body, composed of so many parts.

OBSERVATION.

All voluntary actions of the body are caused by about

440 muscles, which the mind puts in motion by means of a still greater number of nerves; the mind, therefore, during infancy, when we are full of life and vigour, and that the body is alert, must endeavour to learn the vic of these 440 muscles, so esjudiciously to call forth, as occasion may require, the various motions and energies of the body.

2, 79. Are those motions or actions of any use to the

A. Yes; its perfection is thereby promoted, and the

whole body filled with life and vigour.

2. 80. Of what use are those fensations and ideas to

A. They are the foundation of its understanding a for the more the mind has seen, heard, and felt, and the more distinct its sensations are, the more sensible will man become.

2. 81. What particular purpole is answered by

children living together ?

A. They learn to know, to understand, and to love each other, and so lay a foundation for unanimity, mutual fondness, and the happiness of their lives.

Q. 82. But if children live in fociety merry and happy together, can that have any influence upon

them when they arrive at a state of maturity?

A. Yes; it contributes very much to make man spend his life, according to his deflination, in virtue and happinels.

Q. 83. By what means are those wise designs of

Nature promoted ?

A. By activity, and gentle, though conftant exercise, both of the mind and body of children.

2 84. Is such exercise compatible with the nature

of children ?

A. Yes; children are full of vigour and activity, fente and feeling; they are joyful and merry, and defire to affociate with other children.

OBSERVATION.

From the twelfth to the eighteenth year the supple body should be invigorated by exercise and plays; the intuitive mind, by inftruction and reflection, may lay up a flore of knowledge, and man, whose infancy was passed in joy and happiness, learn to become virtuous in his youth; and he will become so if he has experienced the vicissitudes of fortune, her smiles and frowns, and shared his joys with others; if he sirmly believes that all the descendants of Adam have an equal right to enjoy pleasures, and are equally obnoxious to pain; and that an all-wise good God created every thing good, and mankind, with a view of making them happy.

2. 85. What ought we further particularly to ob-

ferve with respect to children?

A. That children be fuffered to exercise their bodies and minds in company with each other in the open air-

OBSERVATION.

Parents ought not only to be prefent at the exercises and amusements of their children, and guard them from all dangers and injuries, but they ought also to encourage them, and lead them to all that is good and becoming, by their own virtuous example.

Q. 86. Ought female children to receive the same

education as boys in their infancy?

A. Yes; that they may at a future period enjoy the bleffings of perfect health as well as men.

OBSERVATION.

The most permicious consequences to the rising generation flow from separating tendle children, at the earliest period of their existence, from male children: from dressing them in a different manner, preventing them from taking the same kind of exercise, and compelling them to lead a more sedentary life.

Q. 87. What are the confequences of preventing children from taking the necessary exercises before the

ninth year?

A. Their growth is impeded, and they remain weak and fickly for life.

Q. 88. What effect will it have upon children if they are kept to too hard work before the twelfth year?

A. They will very foon grow fliff, and old before their

time.

- VI. Of Clothes fit to be worn by Children from the beginning of the Third to the End of the Seventh or Eight Year; or till, in each of the two Jaws, the four weak Milk-Teeth in front are changed for four strong lasting Teeth.
- 2. 89. By what means does man preserve particularly in his infancy, the genial warmth of his body?
- A. By good wholesome food and bodily exercise.

 2. 90 Is it necessary to keep children warm, and protect them against the inclemency of the weather by many garments?

A. No.

2. 91. Why fo?

A. That the body may grow healthy and firong, and be lefs liable to difease.

2. 92. How ought the heads of children to be kept ?

A. Clean and Cool.

Q. 93. Is it good to cover childrens' heads with caps and hats to keep them warm?

A. No; it is very bad; the hair is a fufficient pro-

tection against cold.

2. 94. Are those artificial coverings dangerous and hurtful?

A. Yes; children are thereby rendered fimple and stupid, breed vermin, become scurfy, full of humours, and troubled with aches in their heads, ears, and teeth.

2. 95. What kind of caps are, therefore, the most

dangerous ?

A. The woollen, cotton, and fur caps.

2. 96. How, then, ought the heads of children to be kept?

A. Boys, as well as girls, ought to remain uncovered, winter or fummer, by day and by night.

OBSERVATION.

Children with fourfy heads ought to keep their

heads cool, clean, and uncovered; their hair cut, or repeatedly combed; which will be fufficient to cure the cvil, for to cure it with falves is a very dangerous custom.

2. 97. Can the fun or air be prejudicial to the skin?

A. No; if proper care be taken to keep the skin elean, they can do no harm.

Q. 98. But will not children be scorched by the fun

if exposed to its heat without being covered ?

A. No; those that are accustomed from their infancy to go uncovered will not be affected by the fun.

2. 99. How is the hair to be kept ?

A. It ought not be combed backwards, or tied behind; but it ought to hang free round the head to protect it.

2. 100. Ought the hair to be often combed ?

A. Yes; it ought to be kept in order and combed repeatedly every day; which prevents vermin from fettling in it, and induces cheerfulness and liveliness.

Q. 101. Is it right that the collars of fhirts and

neckcloths should press the neck and its veins?

A. No; the neck ought not to be squeezed; and, therefore, children ought to have their necks bare.

9. 102. How ought childrens' garments to be ar-

ranged?

A. So as not to impede the free and easy motions of the body, or prevent the access of the fresh strengthening air to it; they, therefore, ought to be free, wide, and open.

2. 103. What further is requilite for this dress?

A. It ought to be simple, clean, light, cool, cheap, and easy to put on or take off, it ought to be different in every respect from that of older or grown-up persons.

2. 104. What other reason is there for making this diffinction between the dress of children and grown-up

persons ?

A. To induce children to live with less restraint and greater happiness in the society of each other; to impress upon their minds an idea of their weak, helpless condition, in order thereby to check the too early ebullitions of that pride which leads children to ape the customs and

actions of grown up perfons; a practice unbecoming at their age, and dangerous, perhaps, to their health and morals.

2 105. How, and of what meterials, ought chil-

drens' garments to be made ?

A. A child ought to wear a wide linen frock, white, with blue firipes, having wide fhort fleeves, and a shirt of the same form.

OBSERVATION.

The shape of the frock is represented in the frontispiece to this book; it ought to be without pocketholes, and not very long, having the sleeves of sofficient length to reach down to the elbows, and no further. The collar of the shirt to fall back over that of the frock,—the only garment that a child should wear over his shirt, in order that it may move easily and without restraint; and that the fresh air, having free access to its body, may strengthen and invigorate it.

2. 106. Ought children to wear this drefs in the

winter time?

A. Yes; with what beneion of a woollen frock, took kind worn between

and more beautiful; child en will learn the best and more graceful attitudes; and will feel themselves very well and happy in this simple and free ga ment.

OBSERVATION.

That by the general introduction of this simple and easy deels, the human race would be benefited, and rendered every way more accomplished, it cannot be doubted. It is, therefore, to be hoped that it will be generally adopted.

2 115. How mull the whole dress be kept?

A. Orderly and Clean. The fhirt ought always to be clean, and the frock decent, not worn out, or torn to pieces, or unclean.

2. 116. When children appear always combed and

9. 100. What is the form of the human foot ?

A. At the toes it is broad, the heel small, and the infide of the foot is longer than the outfide. See Fig. 1.

Q. 110. Why has it this form ?

A. That man may walk and fland with eafe and firmness, and move his body freely.

9. 111. How ought shoes, particularly those of

children, to be formed ?

A. They ought to have the same form as the feet; they, therefore, ought not to be made by one, but two lafts, as the shape of the feet may indicate.

Each foot may be laid upon a fheet of paper, and its true shape drawn with a pencil, after which model two separate lasts may be made.

From the following figures it appears clearly how fhoes ought to be shaped. The middle Fig. I. is the original shape of the sole of the left foot; the first, Fig. III. shows how the sole of the left shoe ought to be formed; and the last Fig. II. shows clearly, that the shoes we usually wear, made on

therefore, what do not at all fit, ave their new

9. 102. How ouga. childrens' garments to 41.

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A. No; heels cause the back-bone to bend, and impede the free and easy motions of the body in walking and running.

OBSERVATION.

In order to obtain or preferve an upright possure or carriage of the body, and to run and jump easily and conveniently, shoes without heels must be worn.

when children are suffered to walk much, and are barefooted, they acquire an easy and steady pace. Little children ought not to wear shoes before the eighteenth month; if they do the soles must be thin and soft, that they may learn to walk easily and well. Boots ought not to be worn by children.

Q. 113. How ought, therefore, children, male as well as female, to be dreffed from the beginning of the

third to the end of the feventh or eighth year?

A. Their heads and necks must be free and bare, the body clouded with a wide thirt and frock, with short sleeves; the feet covered only with a pair of socks to be worn in the shoes; the shoes ought to be made without heels and to fit well.

2 114. What benefit will be derived from this kind

of drefs

A. The body will become healthier, stronger, taller, and more beautiful; child en will learn the best and moit graceful attitudes; and will feel themselves very well and happy in this simple and free ga ment.

OBSERVATION.

That by the general introduction of this simple and easy deefs, the human race would be benefited, and rendered every way more accomplished, it cannot be doubted. It is, therefore, to be hoped that it will be generally adopted.

Q 115. How mult the whole drefs be kept?

A. Orderly and Clean. The fhirt ought always to be clean, and the frack decent, not worn out, or torn to pieces, or un-lean.

2. 116. When children appear always combed and

washed, and in a clean shirt, and dressed from top to foe with decency and cleanliness, what is common y concluded from it?

A. That their parents are fenfible, kind, and loving. 2. 117. And with respect to the christen themselves?

A. They are beloved: the boy will become a worthy man, the girl an excellent wife; and both imitate the example of their parents.

Q. 118. Is it proper that grown up persons, but, especially, is it proper that child en, should be desired in an offentatious manner, or shew any pride in their attire?

A. No; simple, decent, clean, easy dress is the best.

Ecclesiations x. 7. Pride is hateful before God and
man; and by both doth one commit iniquity.

OBSERVATION

Stays and fliff jackets are inventions of the most pernicious nature; they disfigure the beautiful and upright shape of a woman, and, instead of rendering her straight as was formerly supposed, they make her crooked-backed; they injure the breasts and bowels; obstruct the breasting and digestion; burt the breasts and uipples so much, that many mothers are prevented by their use from suckling their children; many hence get cancers, and at last lose both health and his; they in general destroy health, and render the delivery of women very difficult and dangerous both to mother and child.

It is, therefore, the duty of parents, and especially of mothers, to banish from their houses and families both stays and jackets. Those girdles or safe as which press or constrain the belty are equally injurious; and, in general, it would be a desirable thing, if the semale dress were made to consist of a long easy, and beautiful robe, and not of two parts, joining or meeting at the hips.

2 119. Is it adviseable to wear clothes that have been worn by people who were insected by epidemic diforders, or who died thereof; or to make dresses of them for children?

A. No ; it might cause an entire loss of health, and, perhaps, life.

OBSERVATION.

Old clothes, particularly old woollen clothes, infected by unwholefome perfpiration, are very injurious to health, and epidemic fevers are hence cashy and frequently propagated.

THE following Chapters regard grown-up perfons as much as children; those parts alluding to the latter only, will be pointed out in particular queries and answers.

VII. Of Air.

Q. 120. WHAT ought to be the flate of the air in which man liveth, and every moment breathes?

A. The air in which man liveth, and which he

breathes, ought to be fresh, clear, and dry.

Q. 121. Why ought it to be fresh, clear, and dry?

A. Because it tends to refresh us, and makes us healthy, composed, and serene; it encourages man to work cheerfully, excites appetite, improves health, and induces balmy sleep; in short, man finds himself exceedingly happy while he breathes fresh air.

Q. 122. Does he feel equally as comfortable when

he breathes bad, foul, and damp air?

A. No: in bad corrupted air man becomes weak, unhealthy, and irritable; loathfome and stupid; it often causes fevers and many dangerous maladies very difficult to cure.

2 123. Is it very necessary that man should live in fresh air, in order to enjoy a persect state of health?

A. As unavoidably necessary as eating and drinking:

2 124. Why is it fo?

A. Because the ambient air contains, as well as our food, vital principles, very peculiar ones, which cannot

C 2

be dispensed with, or supplied by any thing except the air we breake.

OBSERVATION.

Even plants in the best foil, and beasts receiving the most wholesome food, will decay without good pure air. Man, therefore, in particular, requires fresh air, that he may live and thrive, be healthy, fentible, serene, and happy.

Q. 125. By what means is air corrupted ?

A. The air is corrupted in houses and rooms that are not sufficiently ventilated: beside, if in the vicinity of the habitations of man there be morasses, or slaguant waters, they are sufficient to corrupt the circumambient air.

Q. 126. By what other means is air rendered ob-

noxious?

A. Vapours arising from damp, foul things; the breath and perspiration of many persons; the smoke from lamps, tallow candles, and frusts; the steam from ironing linen; the exhalations that arise from combing wool, and from burning charcoal; all tend, in a greater or lefter degree, to corrupt or deprave the atmosphere, and render it capable of impeding the action of the lungs, or inducing suffocation.

Q. 127. What ought people to do that are much

confined to rooms or chambers?

A. They ought frequently to open their doors and windows, in order to diffipate corrupted air, and admir the cooling, healthful zephyrs.

Q. 128. What other method can be devised to pre-

vent the depravation of air in a room?

A. By making two holes, one through the outer wall of the house, that will open into the room near the floor of it; the other near the ceiling, through the opposite inner wall or partition; the external atmosphere will enter at the hole near the floor, and diffipate the four air through the aperture above.

Q. 129. What elfe ought people to do, to obtain fo-

defirable an end ?

A. They ought to keep their rooms or apartments clean, and in proper order; nothing superfluous, or that can possibly corrupt the air, ought to be suffered in them.

OBSERVATION.

Perfumes, and flowers emisting a firong fmell, are very dangerous in rooms, particularly in bed-chambers; they corrupt the air, and caufe head-ach, giddiness, and sometimes apoplexy.

Q. 130. What are the figns by which you may know whether rooms be clean, and contain wholesome air?

A. When there are no cob-webs in the corners, or on the ceiling, of the room, nor dust, nor straw, nor filth of any kind; when the windows are clean and clear, and that no offensive smell, or unpleasant sensation, is experienced by a person who enters it that has been just breathing the open air, we conclude that it is as it ought to be.

2 131. Is it necessary for man to breathe fresh air

when affeep?

A. Yes: It is necessary that he breathe good wholefome air, whether awake or fleep: curtains encompassing a bed, and narrow bed-steads, are therefore very unwholesome.

OBSERVATION.

To cover childrens' faces when they are affeep is a bad cultom, for they are thereby deprived of fresh air.

2 132. If people that are much confined to their rooms were careful to live always in fresh air, what

would be the natural confequence?

A. Inflead of being unhealthy, weak, and fqualid, and labouring under catarth, cold, and hoarfeness, they would be much more healthy, content, and happy, and live longer,

OBSERVATION.

To bury the dead in or near towns and villages is very injurious and dangerous to the living.

VIII. Of Cleanliness: Washing and Bathing.

2. 133 OF what use is cleanliness to man?

A. It preserves his health and virtue; it clears his un serstanding, and encourages him to activity; it procures him the effects of others; and none but clean people can be really cheerful and happy.

2 134 How far is uncleantines injurious to man?

A. It corrupts his health and virtue; it supplies his mind, and finks it into a lethargic state; it deprives him of the esteem and love of others; beside, unclean

people can never be really merry and happy.

2. 135. Does uncleanline is cause any maladies?

A. Yes. Uncleanlin is and bad air, which are commonly inseparable, produce severs, which are not only very malignant and mortal, but contagious also.

OBSERVATION.

Doctor Ferriar of Mancheller, so renowned for his humanity, proves from the epidemical poison which commonly originates in the huts of misery, that not only virtue and charity, but also felf-preservation, point out to the rich that it is their duty to relieve the poor.

2, 136. What impels man most to keep himself

elean?

A. The being accustomed from his infancy to clean-

liness in his person, his dress, and habitation.

2. 137. What must be done to keep the body clean?

A. It is not sufficient to wash the face, hands, and feet; it is also necessary, more than once, and at short intervals, to wash the skin all over the body, and to bathe frequently.

2 138. Is washing and bathing the whole body

wholefome?

A. Yes, it is very good; for it begets cleanliness, health, strength, and case; and prevents catarrhs, cramps, rheumatism, pally, the itch, and many other maladies.

OBSERVATION.

In Russia almost every house has its bath; and it were to be wished that each village or town in every country contained one or more houses, where people might be accommodated with cold and warm baths.

Q. 139. Why is the keeping the body fo clean of-

fo great importance?

A. Because the half of whatever man eats or drinks is evacuated by perspiration; and if the skin is not kept clean, the pores are slopped and perspiration confequently prevented, to the great injury of health.

9. 140 What rules are to be observed with respect

to bathing ?

A. 1. That you be careful to bathe in places where

you are not exposed to danger.

2. That you feel yourfelf thoroughly well and in good health, and that you be not over heated at the time of going into the bath, which should not be immediately after a repast.

3. That you go not into the bath flowly, and by

degrees, but plunge in all at once.

4. That after bathing you repose not, but walk about leifurely.

OBSERVATION.

It would be very adviseable to impel scholars to bathe, under the inspection of their masters, a certain number of times each week, from the beginning of May, till the end of September.

Q. 141. How often is it necessary to wash hands and

A. In the morning, and going to reft; before and after dinner and supper, and as often as they are by any means foiled.

OBSERVATION.

In each regular house there ought to be constantly ready a wash hand-bason, and clear cold water, for that purpose,

Q. 142. Is it not necessary after meals to clean or

wash the mouth ?

A. Yes. Immediately after each repast the mouth ought to be cleanted with cold water; the gums and teeth are thus preserved found and good, and the toothach prevented.

2 143. Ought not children to be washed and

combed before they go to ichool?

A Yes. Children ought, morning and evening, before they go to fehool, to be combed and washed; that, being thus rendered comfortable and cheerful, they may with greater eale and pleasure advance in the paths of science and victue.

Q. 144 Weat ought you particularly to do when

you wash yourself?

A. We ought always to immerfe our faces in the water, and keep them fo for a little time.

OBSERVATION.

Thus we accustom ourselves to restrain our breath, which in case of danger in the water will be found of great use. And if we open our eyes in the water, and clean the mouth, it will prove beneficial to both, and prevent tooth-ach.

2 145 As it is necessary that the body should be kept clean from the earliest infancy, and as little children are not capable of washing and attending the m-felves, what duty is therefore imposed upon parents?

A It is as much their duty to wash their children as it is to feed and cloath them; for children that are often washed improve in health; their clothes are always clean; cleanliness becomes familiar to them; and they grow up virtuous, polite, and happy.

2 146. Do little children like to be bathed and

washed?

A. In the beginning they are frightened, and cry; but if they be regularly and frequently bathed, and often washed every day, they at last take delight in it.

Q. 147. Is it sufficient that man keep his hody clean?
A. No. He mut also keep his clothes clean, and all

that is about him; his apartments, beds, and furniture: and they ought also to be kept in order.

2. 148. What benefit doth the whole house-hold

derive from such order and cleanlines?

A. It tends to preferve their health; makes all work eafy, and renders life joyous and happy.

IX. Of Food.

Q. 149. WHY doth man eat?

A. To fatisfy the cravings of hunger, to preferve life, and to nourith the body.

2. 150. What kind of food doth man generally

partake of?

A. Bread, vegetables, fruit, milk, fish, and meat.

Q. 151. Which of these yields the greatest nourishment?

A. Meat, or animal food, which is more nourishing than vegetables,

Q. 152. Of what ought our meals to confift?

A. Chiefly of vegetables.

OBSERVATION.

That man was not defigned to live on meat, or on vegetables, only, is evident from the confluction of his teeth, his flomach, and bowels. Living upon animal food only causes putrefaction of the blood; and vegetables by themselves do not sufficiently nourish or strengthen the body.

Q. 153. What gives the most delicious relish to

food ?

A. Hunger, and the thorough multication of the food.

2. 154. What tends most to promote hunger and digettion?

A. Bodily exercise, especially in the open air.

2 155. Isit best to eat simple food?

A. Yes. It is destructive of health to partake of ma-

my different diffies, or of fuch as are prepared with much art ; for they are very d first of digetion, and afford bad and unwholefome nour thment.

2. 156. What is particularly to be observed at

meals?

A. Order and moderation; and that the food be well massicated, in order that it may the more readily be converted into chyle.

OBSERVATION.

By maffication the teeth are kept found and faft, It is therefore necessary to make children chew on both fides of the mouth.

2 157. What does Strach fay of frugality?

A. Ecclefialticus xxxi. 20. he fays, " Sound fleep 64 cometh of moderate enting: he rifeth early, and his 66 wits are with him; but the pains of watching, and 66 choler, and pangs of the belly, are with an unfati-" able man."

2 158. If our food be not sufficiently mallicated and converted into a pap like substance, what is the

confequence ?

A. It cannot be digested sufficiently; and undigested food yields bad nourishment to the body-overloads the ftomach, and induces a weak, morbid state of the fyftem.

Q. 150. Is it good to drink much at meals?

A. No. Too much donk renders our food too fluid .-Q. 160. Does fluid aliment afford wholesome and

ftrong nourishment ?

A. No. Food of whatever kind, in order that it may afford proper nourithment, ought to be substantial : it is therefore necessary to eat bread with fluid aliment.

OBSERVATION.

Even the milk which the child facks must first curdle in the stomach before it can give any nourishment to the body.

2 161. As bread is our principal food, what ought to be its appropriate qualities?

A. It ought to be made from good corn, and well

baked.

OBSERVATION.

Wellpholian pumpernickel, or black bread, is, for healthy, ftrong, hard labouring people, a good wholetome kind of food; but it is too heavy for children, aged perfons, or fuch as lead a fedentary life, and yields them but little nourifliment.

9 162. What must we have to be able to bake good bread?

d. 1. Clean and dry corn, that is not damp, mufty,

or in a flate of vegetation.

2. Flour that has not fermented in the facks or boxes.

3. Too much, or too hard water, is not to be used; but fost water may be employed for making the dough, which requires to be well kneaded.

4. Fresh good yeast is required.

5. The leavened dough ought to swell confiderably in a temperate heat, and

6 The oven ought not to be too cold, nor too hot.
2 163. If rye be mixed with much cockle feed,
mother wort, or other tare feed, will it make whole-

fome bread ?

A. No. It makes bad and unwhol-fome bread.

9. 164. If the be damp, multy, or in a flate of vegetation; or if it has grown in a wet featon, ought bread to be made of it?

A No. It is very dangerous to eat fuch bread; for it in the es fickness and anxiety; and frequently begets contagions and putrid fevers, which lay waste whole provinces.

Q. 65. How can fuch damp, had rye or corn be improved to far as that wholefome bread may be made of it?

A. The corn ought to be deted before it is ground, and the bad flower mixed with fome good orris, eye, or barley flour: a little water, in which a certain quantity

of pot ash has been dissolved. may be made use of to morten it; the bread must be baked slowly and well, and must not be caten when warm or new, nor in too great a quantity.

OBSERVATION.

Children ought to be carefully instructed how to make good wholesome bread, how to preserve good corn, and to correct that which has been spoiled. There is a compendious little book on this subject; it is generally read in Germany. As it contains many useful and interesting instructions respecting persons who have been drowned or possened, or who have met with other accidents, it will soon be translated and offered to the public.

Q. 166. Is hot bread or cakes wholesome?

A. No. They are very unwholesome: they may cause sickness and death.

Q. 167. Potatoes, when eaten in moderation, are good and wholesome; but, do they prove falutary when eaten in too great quantity, and every day?

A. No. Potatoes eaten every day and in great quantity, are not very wholesome; they afford scanty nourshment.

OBSERVATION.

Potatoes, when eaten too often, or immoderately, prove hurtful to heaith, and to the mental faculties.

2. 168. What is further to be observed with respect

to potatoes.

A. Potatoes ought not to be eaten before they are quite ripe; and care should be taken that they do not grow mully, or shoot out in damp cellars—such potatoes are bad.

OBSERVATION.

As potatoes dagenerate that are year after year dug from the old roots, and lote their prilline vir-

tues, it would be best that part of the potatoes be eaten this year, and part be kept for feed for the next, and fo on; which will produce much finer and more wholesome potatoes than the others.

2. 169. Are ripe fruits and acid substances whole-Some ?

A. Yes: they cleanse and refresh the body.

OBSERVATION.

With respect to the kernels of fruits, children ought to be cautioned not to swallow them, as they may cause an obstruction in the bowels and consequent death.

Q. 170. Are fat meats wholesome ? and is it good to

give much bread and butter to children?

A. No ; it is not good. Bread and butter, like all fat aliments, are difficult of digestion; they are prejudicial to health, generate a great deal of bile, and produce worms.

OBSERVATION.

All children, without exception, have naturally worms in their bowels; but those worms are only hurtful and dangerous, when from bad, indigestible food, and want of exercise, the bowels are over-loaded with flime, which disposes to the generation of worms.

2. 171. Are astringent, salted, or high-seasoned viands wholefome?

A. No; they are unwholesome; and children ought not to eat, aftringent, pickled, or high-feafoned meats.

2. 172. What is in general to be observed with re-

spect to the feeding of children?

A. They ought to be fed regularly every day at stated times, and often; their food ought to be mild and nourishing, that they may grow and thrive well.
2. 173. Is it good to give children dainties, cakes,

or fweetmeats?

A. No. Children are thereby rendered too fond of their bellies, become gluttons, and degenerate from the dignity of their nature.

OBSERVATION.

Sweetmeats, and all the toys of children, are commonly covered with poisonous paint: they therefore ought to be prohibited.

Q. 174. What is the flate of the kitchen of a good

orderly wife or house-keeper?

A. The kitchen furniture is always kept clean by foouring and washing; after any part of it has been used, it is immediately washed, and dried with a clean cloth, and put up in its proper place; and when it is wanted again, it is first of all dusted and rubbed well.

2. 175. What is especially to be observed with re-

spect to the preparing and keeping of victuals?

A. The greatest cleanlines; and the eatables ought neither to be prepared nor kept in improper vessels, or such as can communicate to them any possonous quality.

Q. 176. Ought every thing first to be washed before

it is boiled or roafted?

A. Yes. Every kind of food, whether animal or vegetable, ought to be well washed before it is boiled or roalled; and vegetables especially require washing to remove mildew or insects.

2. 177. What fort of kitchen utenfils may become

noxious?

A. Those of copper, which are not perfectly well tinned, and earthen veffels which are glazed with too much lead.

OBSERVATION.

Earthen vessels receive a varnish of sand and prepared lead; if two much of the latter be used, or if the varnish be not well burnt, acids will dissolve the lead, and render it capable of communicating a deleterious impregnation to food. of. 178. If acefcent food, especially, be prepared and kept, or suffered to cool, in such vessels, what are

the confequences?

A. It diffolves and mixes with part of the lead or copper, and so becomes capable, if eaten, of producing gradual loss of health: sudden death may be the unavoidable consequence.

2. 179. What is therefore to be observed with respect

to those veffels?

A. Those of copper ought to be well tinned; the earthen ones must have a very hard and durable varnish, confisting of but little lead, and ought to be well seasoned by keeping them a proper time immersed in boiling water, in which pot-ashes have been dissolved; and neither the copper nor the earthen vessels ought to be used for cooling or keeping victuals.

2. 180. Are pewter veffels also dangerous in this re-

Spect ?

A. They are. Pewter is often mixed with a great deal of lead; and therefore victuals ought not to be kept in vessels of this kind.

2. 181. What kind of water ought to be used for the

boiling of victuals?

A. Not only for boiling victuals, but for baking and brewing, clean foft water is required, in which dry pease can be boiled foft.

X. On Drink.

2. 182. HOR what purpose is it necessary that

man should drink !

A. To quench his thirst; but not to gratify his palate, or to strengthen his stomach, or with a view hence to derive nourishment; for all such notions are wrong, and against nature.

1) 2

2. 183. What kind of beverage therefore is the most proper?

A. Cold water.

2. 184. What advantage do we derive from drinking cold water?

A. Cold water cools, thins and clears the blood; it keeps the stomach, bowels, head, and nerves in order, and makes man tranquil, ferene, and cheerful.

2. 185. What is it that gives to cold water an agree-

able taile, and renders it nourishing ?

A. Bodily exercise in the open air not only induces thirst, and a desire for water, but also renders is nou-rishing.

OBSERVATION.

By the movement of the body, water is caufed to mixthoroughly with the blood, whose viscid, sharp, and acrid humours it expels from the body.

Q. 186. Do people commonly drink a sufficient quan-

tity of cold water ?

A. No. Many, from not taking sufficient exercise in the open air, and from drinking frequently large quantites of warm drink, lose all real thirst; and, from not drinking a sufficient quantity of cold water, their blood remains viscid, acrid, and impure.

OBSERVATION.

Females, in particular, that are much confined at home, drink a great deal of coffee and tea, but do not drink enough of cold water.

2. 187. May we drink any water without distinction?

A. No. We ought not to drink stagnant, unclean, muddy, or putrefied water.

OBSERVATION.

If one be under the unavoidable necessity of drinking bad or foul water, a little vinegar may be

mixed with it, which is the best corrector of

2. 188. What kind of water is best for drinking?

A. Pure, clear water, without taste, smell, or colour:—water in which soap will readily dissolve, and peas readily soften, if boiled in it.

OBSERVATION.

The old Romans made aqueducts of fuch a length, that five, ten, or more hours, would be confumed in walking from one extremity to the other of fome of them; and they did so in order to furnish populous places with good wholesome water for drinking.

Q. 189. Is beer a wholesome beverage?

A. Light, well-brewed beer is not injurious to the health of grown-up persons; though certainly good water is much better, and more wholesome.

OBSERVATION.

Children, by drinking beer, lofe the defire of drinking water, and fo fteal into the habit of drinking too much coffee, tea, wine, and brandy.

Q. 190. Are warm drinks, such as coffee, tea, &c.

wholefome?

A. No. The only wholesome beverage is cold water; all warm drinks weaken the stomach and body; they do not cleanse the bowels, nor purify the blood, and are, therefore, unwholesome and hurtful to health.

Q. 191. Why are people, particularly females, fo

fond of tea and coffee ?

A. Because, for want of exercise, they have no natural or real thirst; and because they have been used to them from their infancy.

OBSERVATION: -

If water were the only drink of man, both his health and fortune would be improved. If what is fpent on fluids that are hurtful to life were appropriated

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to the purchase of nourishing food, and other necessaries of life, the lot of humankind would be meliorated, and we should live longer, and be healthier, stronger, and happier.

2. 192. What, then, ought to be the only beve-

rage for children?

A. Pure, good cold water ought to be the only drink of children and young folks; who ought to be prohibited from drinking beer, coffee, tea, or other warmliquors.

Q. 193. What advantage do children and young

persons derive from drinking cold water only?

A. They grow, and are nourished, much better, and become healthier, stronger, and happier.

XI. Of Wine.

2. 194. IS wine wholesome, when drank often, or as a common beverage?

A. No; it is not. Wine is very hurtful to the health

theintellects, and the happiness of man.

2. 195. Wine, as a medical potion, comforts the fick, and firengthens the weak; but does it afford any real firength or nourishment to the healthy?

A. No; it only over-heats, without procuring real flrength; for it cannot be converted into good blood,

flesh, or bone.

Q. 196. Does wine contribute to the digestion of

our meals?

A. No; it does not. Those that drink water eat with a better appetite, and digest better, than those that drink wine.

9. 197. What consequences ensue from drinking

wine continually ?

A. The tongue lofes its delicacy of taste, and rejects water and mild simple food; the stomach grows cold and lofes its natural vigour, and man, under the false idea of giving warmth to his stomach, gains by degrees

a passion for drinking, which leads him at last to habitual ebriety.

OBSERVATION.

Young and bad wines, full of impure, earthy parts, and volatile spirit, are much more hurtful than old wines of a good vintage. Wine adulterated with any preparation of lead, as fugar of lead, white lead, &c. is poifon.

2. 198. May children drink wine, punch, or other spirituous intoxicating liquors ?

A. No. Children and young perfons ought not to drink wine, or any other spirituous liquors; for they are hurtful to health, impede growth, obscure reason, and lay a foundation for wretchedness hereafter.

2. 199. Does wine expel worms?

A. No : it does not.

XII. Of Brandy.

OBSERVATION.

EGETATION has united and incorporated in the corn, by means of air and water, spirituous and earthy elements, which combined form a fweet and nourishing substance; if this intimate junction is destroyed or resolved by fermentation, the spirituous part is separated from the earthy, which is then deprived of its body, and is no longer a fweet nourishing substance, it is fiery, and de-Arovs like fire.

2. 200. Is brandy a good liquor?

ADDRESS TO CHILDREN.

Children, brandy is a bad liquor. A few hundred years ago brandy was not known among us. About 1000 years ago, the destructive art of diftilled spirits of wine from wine was found out; and 300 years ago, brandy was first distilled from corn. In the beginning it was considered as physic. It did not, however, gain any degree of general request till the close of the last century, or rather till within the last thirty years, that it has become an universal beverage, to the great detri-

ment of mankind.

Our forefathers in former times, who had no idea of brandy, were quite different people from what we are; they were much more healthy and flrong. Brandy, whether drank by itself or at meals, cannot be converted into blood, flesh, or bone; confequently, it cannot give health or ftrength, nor does it promote digestion : it only makes one unhealthy, stupid, lazy, and weak. It is, therefore, a downright fallehood, that brandy, as a common beverage, is ufeful, good and necessary. Our forefathers lived without it. And as experience teaches us, that even the most moderate and most reasonable give way to the baneful custom of drinking every day more and more brandy, it is much better, in order to avoid temptation, to drink none at all; for believe me, children, brandy deprives every body who addicts himfelf to the immoderate and daily use of it-of health, reason, and virtue. It impels us to quit our house and home, and to abandon our wives and children, and entails on its wretched votaries mifery and difeafe, which may descend to the third and fourth generation.

It has been observed in all countries, in England, Scotland, Sweden, North America, and Germany, that in proportion to the quantity of brandy consumed, were the evils which health, strength, resson, virtue, industry, prosperity, domestic and matrimonial felicity, the education of children, humanity and the life of man had to encounter.

It was this that induced an Indian in North America, of the name of Lackawanna, to fay, that

the brandy which had been introduced amongst the Indians by the English, tended to corrupt mankind and destroy humanity. "They have given us (said he) brandy! and who has given it to them (Europeans), who else but an evil spirit!"

Q. 201. Tell me, therefore, dear children, may

children drink brandy?

A. No, by no means; children must not only abstain from brandy, but also from rum, gin, and all other spirituous liquors.

ADMONITION.

It is true that children must not drink brandy, not even a single drop, for brandy deprives children of their health and reason, of their virtue and happiness. When, therefore, dear children, your parents, who, perhaps, do not know that brandy corrupts both body and soul, shall offer you any spirituous liquor, do not accept it, do not drink it.

Q. 202. Tell me now, what becomes of children

that drink spirituous liquors?

A. Children and young persons who drink brandy, or other spirituous siquors, become unhealthy, crippled, stupid, rude, lazy, vicious, and depraved, both as to mind and body.

Q. 203. Doth brandy, or any other spirituous liquor, destroy, or prevent, the generation of worms in

the bowels ?

A. No.

EXHORTATION.

Fathers and mothers, if you wish to obtain the bleffing of the Almighty in an especial manner—if you aspire after celestial rewards, take care not to fusfer your children to drink of spirituous liquors a single drop.

XIII. Of Tobacco.

2. 204. IS the fmoaking of tobacco good? A. No; it is not good, for much of the faliva fo neceffary for digestion is thereby lost, and it is burtful to health, to the teeth, and to the organs of taile.

OBSERVATION.

The chewing of tobacco is equally pernicious.

2. 205. May children and young people smoke tobacco ?

A. No ; children and youth must not smoke at all.

2. 206. Is the taking of Inuff proper?

A. No; it is a very bad cultom, as the nole through which man breathes is stuffed up by it, the important fense of smell destroyed, and uncleanliness and want of health induced by its use.

XIV. Of Exercise and Rest.

WHAT advantage doth man derive

from bodily exercise, activity and labour?

A. Bodily exercise, particularly in the open air, creates hunger and thirst, helps the digestion of our food, and makes it nourishing; it purifies the blood, keeps the bowels healthy, and causes rest and found sleep.

Ecclefiafticus xxx. 18. "To labour and to be con-"tent with that a man hath is a sweet life, but he that

" findeth a treasure is above them both."

Q. 208. Can any body remain in a good state-of

health, without much hodily exercise?

A. No; God has given to man, not without a wife defign, a body, hands, and feet; he is to make use of them and labour, and through labour to preferve life and health, to promote his own happiness, and that of his fellow-creatures.

Q. 209. But cannot exercise and labour hurt a

man ?

A. By all means: If man exceeds the bounds of reason, and of his natural powers, he may hurt himself.

OBSERVATION.

It is computed that, in Germany, 300,000 persons of the male sex are afflicted with ruptures.— What is the reason that people are so liable to ruptures? I believe I have proved satisfactorily, that ruptures will be far less frequent, will scarcely be met with, when the custom of dressing male children in frocks, such as I have described, is introduced, and that the muscles and nerves of the abdomen are strengthened by unrestrained exercise and fresh air. If he works continually and too hard, his body will be debilitated and worn out, or a rupture may be the fatal consequence.

2. 210. Is it good to take much exercise, or work

hard immediately before or after dinner?

A. No; a little rest before and after dinner is necessary, and promotes appetite and digestion, recruits the powers of the body, and fits it for future work.

Q. 211. What kind of exercise is proper for chil-

dren ?

A. Gentle and continued exercise in the open air, during the greater part of the day.

OBSERVATION.

The pulfations in a child are ninety in a minute; those in a man seventy. A child ought, therefore, to take a great deal of exercise of the gentlest kind. It is therefore not good to oblige children to lead a sedentary life, or to do too much or too heavy work, or sludy hard; after the shedding of the teeth the twelfth year, when they have twenty-

four ftrong teeth, when foul and body have acquired their perfect ftrength and vigour, the time of infruction and work should begin, but not before, lest mind and body be injured.

2. 212. How doth man become very active and in.

dustrious ?

A. By being left during his childhood to exercife, unrestrained, with other children, and by being carefully encouraged to activity, assisting; by being taught to do such work as is proportioned to the strength of his body, and accustomed to do every thing with due consideration and in time, and not to postpone till to-morrow, what should be done to day.

Ecclefiasticus ix. 10. "Whatfoever thy hand findeth to do, do it with thy might; for there is no work, nor device, nor knowledge, nor wisdom, in the grave,

whither thou goeft."

Q. 213. What advantages arise from accustoming

children to moderate or easy work?

A. It renders them, when grown up, useful to themfelves and their fellow-creatures; it will prevent them from mixing in bad company, and will banish want and misery from their doors.

Prov. x. 4. " He becometh poor that dealeth with a "flack hand, but the hand of the diligent maketh rich."

2. 214. After man has laboured, and finished his work, what then doth he do?

A. He rests himself, and looks with pleasure upon

the fruits of his industry.

Q. 215. But would he rest as well if he had not la-

boured, or had not been industrious?

A. No. Peace, rest, and joy, are the exclusive enjoyments of him who has done his duty, who has worked and promoted his own, and the happiness of his fellow-creatures.

ADMONITION, OR ADDRESS TO CHILDREN.

Dear children! he who owes his birth and education to healthy, strong, sensible, virtuous, and industrious parents, who, from his infancy, has conflantly inspired fresh, pure, and dry air; whose Ikin and apparel are always kept clean; who, with regard to his meals, observes moderation and order, and drinks no brandy or other spirituous liquors; whose habitation is orderly, clean, dry, and lightfome; who has been accustomed from his infancy to order and cleanlinefs, to affiduity and induftry, and whose reason and virtue have been fortified and improved in his youth by instruction and example; who fears God, loves mankind, and does juftice; who works fix days out of feven for the maintenance of his wife and children :- he only enjoys terrestrial blifs; he is truly happy, and may, anticipating the joys of eternal felicity, brave all the horrors of death.

XV. Of Sleep.

2. 216. FOR what purpose doth man go to sleep?

A. To rest himself after exercise and labour, and regain the strength of his body, and the faculties of his mind.

Q. 217. How do the healthy rest?

A. Their rest is quiet, refreshing, and without dreams.

2 218. When especially do the healthy enjoy a

quiet and refreshing sleep?

A. When their bodies are wearied by much exercise in the open air; when they have satisfied hunger, and that their minds enjoy contentment and peace.

2 219. Doth much depend upon a found fleep?

A. Yes; man after a night's balmy fleep awakes with delight and cheerfulness, finds himself quite happy, and full of vigour and defire for labour.

2. 220. What time is particularly appropriated for

fleep?

A. The night; for in the day-time we do not fleep fo well.

OBSERVATION.

Little children, and people who are either fick or enfeebled, or very much tired, and the old and infirm, are to be excepted, as they very often fleep in the day-time.

2. 221. Ought children to fleep much ?

A. Yes; childred and young people that are constantly in motion, ought to sleep more than adults.

Q. 222. Cannot we fleep too much, and fo injure our

health?

A. Yes: when we have not had much exercise in the open air, and consequently are not tired, and when we, during our sleep, breathe corrupted air, or lie in warm feather-beds, we find ourselves after some time lazy, stupid, and unhealthy.

Q. 223. Ought we to fleep in cool, fresh, and clear

air ?

A. Yes. And it therefore behoves us not to sleep in warm sitting rooms, but in cold, losty, roomy chambers, that have fresh air; whose windows are kept open in the day-time, and contain beds without curtains, or curtains not to be drawn.

2. 224. Is it wholesome to lay on, or under feather-

beds?

A. No. It is very unwholefome. Feather-beds by their warmth, by the noxious, impure, putrid exhalations which they attract, render the body weak and unhealthy; and besides, are the cause of catarths, head, tooth, and ear, aches—of rheumatism, and of many other maladies.

Q. 225. What kind of bed is fittelt for grown up

perfons ?

A. Mattreffes stuffed with horse-hair, or straw, covered with a blanket or quilt. But when people sleep in feather beds, they ought to air and beat them well in summer time once a week, and in winter once in a fortuight, and often change linen.

Q. 226. What fort of bedding is proper for chil-

A. Mattreffes stuffed with straw, or moss weil dried,

which requires often to be changed.

2. 227. Why ought they to lay on such beds?

A. Because it will contribute to the health, and promote the strength of children; and because feather beds are more injurious to the health of children than to that of adults.

2. 228. What is further to be observed with respect

to Deep !

A. We ought not to lay down till we are tired, nor re-

2. 229. Ought the head and breatt to be placed

higher in bed than any other part of the body?

A. No; nor ought we to lay on our backs, but alternately on either fide, in a fomewhat bended position, taking care not to fold our arms round our heads.

2. 230. Is it proper for childen to fleep in the fame bed with grown-up perfons, or ought feveral children-

to lay together ?

A. No. Such practices are very hurtful; for the breath and exhalations conflit of noxious vapours: it is therefore adviseable for every child and every grown person to lay alone, in order to enjoy found sleep.

Q. 231. What is to be done with beds in which fick

people have lain ?

A. They are for many days to be well aired and beat; but if the disease has been contagious, the bed ought to be burnt, or buried deep in the ground.

OBSERVATION.

An English army physician, Dr. Brocklesby, fays, that a bed on which a person died of the quinty, was the cause of the death of two others that slept in it after him. When travelling, one ought to be very careful and particular with respect to beds.

XVI. Of the Habitations of Man.

2. 232. WHAT advantages ought our habita-

A. They ought to be very lightfome and airy.

2. 233. When habitations are dark, rully and damp, what effect do they produce on those that live in them?

A. People in such habitations are rendered unhealthy and weak, paralytic and fick; they grow stupid, simple, ill-natured, and miserable; and little children get pale in damp rooms; they swell, become consumptive and die.

Q. 234. When may rooms be confidered as rufty

and damp?

A. When they lay deep in the ground; when the walls and the floor are wet or damp, and when the furniture or other things grow mouldy.

Q. 235. How can fuch rooms be improved?

A. By the repeated and daily admission of fresh air into them; or, what is still better, by holes made in the two opposite walls of the house, one near the floor, through which the external atmosphere constantly passes, and expulses the foul air through the hole made near the ceiling.

9. 236. Ought rooms and chambers to be lofty and

Spacious ?

A. Yes; the more lofty and spacious they are, the less liable will the air be to corruption

2. 237. How often ought they to be swept and

cleaned ?

A. All inhabited rooms and chambers ought to be cleaned every day.

2. 238. Why fo often?

A. Because it is wholesome and good; and because decent people like to live in clean apartments.

Q. 239. But is it good to fit in very warm rooms in

winter time?

A. No. Very warm rooms are very unwholesome, and make people weak, simple, stupid, and sick.

Q. 240. Is it adviseable to warm ourselves over char-

coal, or to fit in rooms where it is burning ?

A. No. Its vapours produce a great depression of spirits, and sometimes suffocate people.

OBSERVATION.

Those little sloves used by women in Germany and Holland to put their feet on are very dangerous.

Q. 241. Is it wholesome to dry clothes in rooms, or boil water in ovens, where the steam cannot ascend as in a chimney?

A. No. Damp vapours corrupt the air very much, and are therefore unwholesome and injurious to health.

2, 242. If one be very much chilled in winter, may be immediately approach the fire, or a hot flove?

A. No; for chilblains are produced by exposure to

heat after intense cold.

OBSERVATION ...

Dipping the hands often in hot water, and fuddentransitions from heat to cold, and from cold to heat, produce ulcers on the fingers, called in Germany "the worm."

Q. 243. When a limb, as an arm or leg, is frostbitten, what is best to be done?

A. In such a case if the patient enters a warm room, or approaches the sire, the loss of the arm or leg will be the consequence; the part affected should be kept in cold water, in which snow or ice was disfolved, till numbedness be removed, till life and sensation are restored.

OBSERVATION.

In cold winter days, if we travel or walk about in the country, it is necessary that we be particularly careful not to drink any brandy or other

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fpirituous liquor, as it only tends to induce wearine's and fleep, the more to be dreaded as it may last till death, through inanition, is produced.

2. 244. What ought to be the state of rooms in

which children live?

A. Their apartments ought to be lightfome and airy, and be kept orderly and clean; for in such roomschildren will thrive furprisingly, and become healthy, ftrong, and cheerful.

XVII. Of Schools.

HAT ought to be the fite and flate of a school-house?

A. It ought to be built in a free, open, and high fituation; be dry, roomy, and in a good habitable condition.

2. 246. What ought to be the state of school-

A. They ought to be lightfome, airy, large, high, and dry, having floors above the furface of the earth, not made of clay or stone, but of deal.

2. 247. Are narrow, low, damp, dirty, dark

rooms, which exclude the fresh air, unwholesome?

A. Yes; they are very unwholesome ;-oppose the fludies and intellectual improvement of children, and corrupt their morals.

OBSERVATION.

If men were fensible of these truths they would feel an irrefishible impulse to unite, like so many bees in a hive, for the landable purpose of promoting the general good-of erecting and establishing for the benefit of their children, healthy and spacious school houses. They would be indemnified tenfold for their expences by the benion influence fuch inflications would have in promoting the happiness of their offspring.

2. 248. How ought school rooms to be kept ?

A. Orderly and clean, light and airy; taking care to open the doors and windows feveral times a day, in winter as well as in fummer, for the admission of pure air, and not to keep too great fires in them.

XVIII. Of Thunder and Lightning.

2. 249. HOW are people to conduct themselves in thunder-storms, when they are in the field?

A. They are not to run, trot, or gallop, or fland Aill, but keep on walking or riding quietly, flowly, and without fear.

OBSERVATION.

Here the school-master is to explain to the children the nature and causes of thunder and lightning, in order to prevent those fears and false impressions which are made upon the human mind, when children are suffered to form erroneous ideas of such phenomena.

Herds or flocks in thunder-florms ought not to be driven, hunted, or over-heated, or fuffered to stand flill, or affemble close together; they ought to be feparated, and divided into finall numbers; and people should take care not to come too near to

them.

Q. 250. May one shelter himself in a tempest under a tree ?

A. No; it is very dangerous. Trees, and vapours which encompass them, attract the lightney, and persons standing under them are in the utmost danger of their lives.

Q. 251. You are right, children, in observing that when thunder and lightning prevail, one should not take shelter under trees; and the higher the tree the greater is the danger; but, what precautions are people to take when at home during a thunder tem-

pelt ?

A. They are, when the tempest is still at a distance, to open the doors and windows of their rooms, chambers, and flables, in order to expel all vapours and fill them with fresh air. When the tempest draws nearer, the windows are to be flut and the doors left open, that fresh air may be admitted, avoiding carefully a free stream of air. They are further to keep at a proper diftance from walls, chimneys, and ovens, and from all iron and metal, in particular from long iron rods or wires; remaining, as to any thing elfe, composed and without fear.

XIX. Of over-heating Ourselves, and catching Cold.

2. 252. IF, through violent bodily exercise, labour, running, or dancing, we have over-heated ourfelves, what ought we not to do?

A. 1. We ought not immediately to fit down or rest.

ourselves.

2. Drinking immediately after fuch violent exercife any thing cold, or even brandy or other spirituous liquor, is highly improper.
3. We ought not to expose our bare skin to the

cold air.

4. We ought not to go into the cold bath : when thoroughly wet from rain it is proper to walk about.

. We ought not to fit down on the ground, or onthe grafs; and we should be particularly careful not to fall afleep, otherwife ill-health, fickness, lameness, and confumption will be the fatal confequences.

When people go home from their labour in the field, particularly in the evening, in cool, damp air, they

Nan garnet

ought always first to put on their clothes, and not

Q. 253. What elfe are we to attend to?

A. Those that are over heated are by very flow degrees to suffer themselves to cool and enjoy rest; and dry and clean shirts and clothes are to be substituted for those that have been rendered humid by sweat. When cool and composed we may gradually extinguish thirst.

Q. 254. If people during work are very thirfly, may

A. Yes, they may; but they must not drink too much at once, nor leave off working and rest themselves, but continue their labour, else they will take cold and fall sick.

2. 255. What are those to do who have caught cold

from cold and damp wind and weather?

A. They are to drink a few cups of boiled water mixed with a fourth part of vinegar, put on warsh clothes, and, by exercise, force the blood back to the skin. When the cold is violent, they are to bathe their feet in warm water, drink vinegar, and go to bed.

OBSERVATION.

It is very unwholesome to drink spirituous liquors, or diaphoretics (medicines that induce perspiration).

2. 256. What are we to do if our feet or bodies be wet and cold?

A. We are to take off the wet flockings or clothes, left they should cause a catarrh, the palfy, or rheumatism.

2. 257 But what elfe ought to be done?

A. As foon as a person under such circumstances returns home he ought not only to take off the wet clothes, but wash and dry his skin well, and put on warm clothes.

2. 258. How do people by flow degrees get catarrhs, pally, rheumatifm, and other maladies?

A. By the obstruction of the perspiration, or rather transpiration, of the whole, or a part, of the body, occasioned by want of exercise, by wet or damp rooms or chambers, feather beds, wet clothes, and exposure to cold air.

2: 259. Point out to me, by way of elucidation,

how a person may catch cold.

A. When a person, for instance, leans with his right or left arm against a damp wall, or, what is still worse, salls asseep in that position, or that the part is exposed to a stream of air, that part will be attacked by rheumatism or palsy, or catarrh will be produced.

2 260. How may catarrhs and rhoumatisms be pre-

vented?

A. They may be prevented by keeping the skin conflantly cool, clean, and strong; by exposing it to pure air; by washing and bathing when the body is not kept too warm by unnecessary clothes, and by much exercise in the open air.

XX. Of the Preservation of certain Parts of the Human Body.

2. 261. WHICH are the parts of the human body man should take particular care to preserve in a good state of health?

A. The organs of his five fenfes.

2. 262. By what means are the organs of the fight, the hearing, and fmeiling, preserved healthy, improved, and strengthened?

A. By free, pure air, and very frequent exercise in

open air, rather than in confined places.

2. 263. What is in general very hurtful to those

three fenfes ?

A. The unnecessary care of keeping the head warmby caps or other coverings, whereby the blood is drawn towards that part, evaporation obstructed, and catarrhs and ulcers caused, the matter of which being abforbed, occasions blindness and deafness.

OBSERVATION.

The baneful consequences which arise from covering the head, or keeping it too warm, are ulcers, scabs, biles, and lice, which lay the foundation of evils to the human race greater than can be calculated.

2. 264. How may the eyes be injured?

A. By dazzling, irregular, and transient lights; by objects brought too near the fight, or viewed fideways; by corrupted air, dust, smoke, damp vapours, the fat, sharp fumes of oil or candles; by the heat of ovens, and reading without sufficient light.

2. 265. What hurts the hearing ?

A. Strong, sharp, unexpected founds or reports, corrupted air, feather-beds, dust, too much mucus in the nose, and pressure on the external ear, forcing it too near to the head.

OBSERVATION.

That the fense of hearing may be quick and diffinct, the external car should project sufficiently from the head and be moveable, but this is prevented by the close caps which young children wear.

2. 266. How are the organs of smell injured?

A. By corrupted air; by firong and foul odours; by mucus in the nofe, or fauff obstructing the nostrils, and obliging us to breathe through the mouth.

2. 267. By what means is the organ of tafte pre-

ferved?

A. By exercise; by the use of water, and bland aliment.

Q. 268. How may the organ of feeling be preferred?

A. By the exercise of the faculty of feeling; by the exercise of the body, and cleanliness.

Q. 269. Are the common exercifes of the senses suf-

ficient to render them and reason perfect ?

A. No. The fenses require to be incessantly exercised that they may become perfect and capable of directing and upholding us amidst the wanderings of a disordered imagination, whose phantoms vanish before the torch of reason.

OBSERVATION.

Our fight and hearing, if not fufficiently improved, may deceive us during the night, or when the mental faculties are impaired by fear or prejudice: hence the origin of the abfurd belief in spectres. But if our senses be rendered perfect; if we approach, and courageously endeavour to touch whatever imagination conjures up to our view, and that we explore whatever place a noise issues from, we shall soon be delivered from our delusion, and from the absurd belief in the existence of spectres, witches, and all such absurdities. Those who tell tales, and recount stories of spectres to children, with a view to frighten them, are highly reprehensible; and should be excluded from all share in the education of youth.

9. 270. How can a good, intelligible pronunciation

be obtained ?

A. By keeping the mouth and the nofe clean, the neck free and uncovered, and obliging children to accustom themselves to speak flowly, diffinelly, and emphatically, and keep themselves erect.

Q. 271. Should we breathe through the mouth or the

nofe ?

A. We should breathe through the nose, but not through the mouth; it is therefore necessary to keep the nose always clean by soussing it, and to endeavour to breathe through the nose and keep the mouth shut during sleep.

2. 272. Are there no other parts of the body which

man should take particular care in preserving?

A. Yes; his teeth; for the teeth are not only neceffary to affift us to pronounce diffinctly, but for maftication also; and on the proper mastication of our food depends, in a great measure, digestion, and the nourishment, health, and prosperity of mankind.

2, 273. How are the teeth injured ?

A. By much fluid aliment; by coffee, tea, and other warm flops used instead of cold water; by corrupted air in apartments; by uncleanlines; by the use of tobacco; by bits of food, particularly meat, slicking between them; by hot meats and liquors; by filling the mouth alternately with hot and cold things; by biting hard substances, and picking our teeth with knives, forks, pins, and needles; all which practices are highly injurious to them.

OBSERVATION.

Nobody should put pins or needles in his mouth; they may easily be swallowed and cause death. In general it would be well to make as little use of pins, even in dressing, as possible.

2. 274. By what means are the teeth preferved

found ?

A. By the early habit of properly masticating our food; by drinking cold water; by breathing pure air and eating cold or tepid aliment, and drinking no warm liquors at all; by cleaning them after each meal either by drinking or gargling the mouth; and by refraining from picking of them; all this is necessary to keep the teeth found and beautiful.

2. 275. By what means are the front teeth pre-

ferved found?

A. By constant use, and the massication particularly of dry substances, as bread, &c.

OBSERVATION.

Children are not to cut with a knife the bread that has been handed to them, but to break it with the teeth and chew it.

2. 276. Should children also preserve their milk-

A. By all means; for the lafting teeth, which are hid by them, are injured if the milk-teeth are not kept found by much chewing and mastication.

2. 277. If the teeth be not kept found from childhood and are injured, can they be restored to their

original flate ?

A. No; that cannot be done; but through cleanliness, madication, pure air, and cold water, injured teeth may be preserved from future injury.

2. 278. What are the best remedies to prevent

tooth-ach?

A. Mastication, drinking of and gargling with cold water, pure air, cleanlinefs of the mouth, keeping the head cool, bathing the face after rifing in the morning and before going to bed, in cold water.

2. 279. Does the preservation of the saliva deserve

our particular notice ?

A. Very much. The faliva is very necessary in maffication and digeffion, and for that reason the fmoking and chewing of tobacco, by which a great deal of the faliva is wasted, is a very bad custom, as, is also the wetting of the thread when spinning flax or hemp.

OBSERVATION.

The thread may be wetted with water which had been rendered clammy by beer, foap, ground linfeed, bran, thin dough, starch, kernels of quinces, bird-lime, or other things. And befides, the flax or hemp should be well beat before it is put on the diflaff, and well dufled, elfe, in fpinning, the dust or ligneous particles will be drawn by the breath into the lungs, and occasion coughing, stuffing, and perhaps a confumption.

XXI. Of the Beauty and Perfection of the Human Body.

2 280. WHAT may be considered as one of the most appropriate qualities, and as a discriminative characteristic, of man?

A. His beauty.

Q. 281. What is the balis of this beauty?

A. Health, and the perfect conformation of the body.

OBSERVATION.

- Health," fays Bertuch (fee Journal of Luxes and Fashion), March 1793, page 189, " is the only " and infallible source of beauty; all other modes " of attaining it, fuch as folly, imposture, and ig-" norance have devised, may be compared to a plas-" ter, which foon falls off, leaving mournful traces of " difease behind. The beautiful bloom of youth, " the fresh colour, the accomplishment of the whole so bodily ftructure, the free and easy play of the " muscles, the fulness of the veins, the clear deli-" cately-spread, transparent skin, the glance of the " eye so expressive of life and of the condition of the foul, cheerfulness extreme; all announce an " inexpressible sensation of contentment and delight, " which difpenses health and happiness both of foul " and body, makes the husband, the wife, the youth, " the virgin, and the infant, happy, and bestows on er every member of fociety charms and attractive. of powers which no art in the world can afford."
- Q. 282. By what particular means may health be attained?
- A. By free and easy exercise of the body during infancy.

2. 283. What is besides requisite and necessary?

A. Free, pure air; washing and bathing; a light, easy dress; clear cold water for drinking; and simple good meals to nourish the body.

2. 284. By what means is the accomplishment or

perfection of the body to be attained?

A. By avoiding floth and inactivity till the twelfth year, after which plays and gymnaltic exercifes will bring the body to every degree of perfection of which it is susceptible.

Q. 285. What is yet necessary to faciliate the im-

provment of the body ?

A. The instruction of children in the various exercises of the body which tend to render man healthy, strong, industrious, and happy.

Q. 286. What posture of the body ought we to re-

commend to children and to every one?

A. The creek posture, whether we stand or walk, keeping the breast and head elevated; and on all occasions that will admit of it, an upright posture is best.

Q. 287. What, therefore, may be considered as very

hurtful?

A. Walking, standing, or sitting negligently, remaining bent or crooked, hanging down the head during inspiration, or while we speak or listen, and looking askance.

Q. 288. Is it proper to accustom children to make

use on all occasions of the right hand only ?

A. No; that is very wrong. Children are to be taught to make the same use of the left hand as of the right.

2. 289. What does most diminish beauty?

A. The habit which children fometimes contract of making wry faces and foolish gestures.

Q. 290. Is the beauty of man all that depends on his

accomplishment or perfection?

A. No. Innocence and peace, reason and virtue, the consciousness of having done one's duty, and contributed toward the general good, in endeavouring to diffuse happiness among mankind in this terrestrial abode, all shew the accomplishment, the beauty and dignity of man.

SECOND DIVISION.

OF DISEASES.

XXII. Of Difeases; Physicians, and Medicinese

OBSERVATION.

F people lived as they ought to do they would be exposed to very few internal complaints, perhaps to none at all; and the little ailments to which Nature under all circumstances is obnoxious, would be removed by those powers with which God has endowed her, for the preservation of the life and health of the human body, constructed with infinite wisdom and intelligence. But people, seduced by their passions and anisquided by error, lead an irregular and dissolute life, and thus expose themselves to a train of melancholy diseases.

Q. 291. Tell me then, what ought those to do that

A. They ought to keep themselves tranquil and composed, and apply for the affishance of a physician.

2. 292. What knowledge should a physician have

who undertakes the cure of difeafes?

A. He should have a thorough knowledge of the beautiful and complicated structure of the human body; know the proximate and remote causes of diseases, their nature and their mode of action on the human body; how the vis medicatrix nature, or sanative power of nature, operates; and how medicines, whose virtues he ought to be acquainted with, contribute to remove or cure diseases.

2. 293. Is the knowledge necessary for a physician eafily attained, by reading a few books, or by converfation ?

A. No. It is a very difficult matter to attain a thorough knowledge of the fcience of physic, which we should begin to study in our youth, and cultivate continually through life with great affiduity and pains.

2. 294. To whom should a patient apply for

affiltance ?

A. Not to a quack, but a physician celebrated for his understanding, erudition, and rectitude of heart; who has received a regular education, and fludied methodically the very difficult art of knowing and curing difeafes.

2. 295. What class of people do you call quacks? A. All those who are not acquainted with the Aructure of the human body, and who have not methodically studied the science of curing diseases; all those who presume to judge of the nature of a disease by the urine only; who arrogantly promife to cure every malady; and all those are also classed among quacks who are not properly authorifed to act in the capacity of physicians by some magistrate, university, college of physicians, or some other respectable authority.

2. 296. Is it possible to learn the nature of a

difease from the urine?

A. No. The urine by itself cannot determine the nature of a malady. Those, therefore, who fet up as water-doctors are generally impoltors; by whom many lafe not only their money, but their health and lives.
2. 297. There are in every country prelumptuous,

ignorant people, and in fome parts Roman Catholic priefts, executioners, shepherds, &c. who give themfelves an air of importance, have a great deal to fay for themselves, inspect the urine, undertake to cure difeases, and find every where employment and credit : -is it judicious to apply to fuch people for affiftance and remedies in case of fickness ?

A. No; it is irrational; and people who apply to fuch quacks for help, prove that they are very ignorant and have been very badly instructed in their youth.

2. 298. Can maladies originate in supernatural cau-

fes, fuch as witchcraft or forcery?

A. No; it were nonfenfical and foolish to believe it. Nature operates universally; and all diseases spring from natural causes.

2. 299. What opinion may we form of travelling, advertifing operators, that pretend to cure ruptures by fection; and what are we to think of itinerant dentifts and oculits?

A. They are mostly braggadocios, who have no other view than to defraud the credulous of their money.

2. 300. Is it reasonable to buy medicines for man or bealt of those medicine-hawkers who travel about the country?

A. No; for by the fluff which those vegabonds fell, life and health may be loft; those nostrums should not

be given to any even of the brute creation.

2. 301. Is it advisable to take domestic remedies?

A. No. In a hundred fuch there is hardly one that answers the purpose. The best, the only, and universal domestic remedies which the Almighty has given us are—fresh air and cold water.

Q. 302. What are we to observe respecting those universal, or secret medicines, for the cure, for instance, of canine madness, the ague, &c.?

A. Nothing favourable; they expose health and life

to the utmost danger.

OBSERVATION.

The fecret remedies against canine madness, and those which are usually reforted to as infallible, are good for nothing: they are not to be depended upon. The only certain means of preventing the fatal effects consequent on the bite of a maddog (producing canine madness, shewn by a strong abhorrence from water,) are washing the

wound as foon as possible with caustic lye, which destroys the surface of it; or, silling it and covering the edges of it with spanish-slies, which, by inducing copious suppuration, draw all the poison

from the part affected.

Universal medicines (so called) are vainly exhibited for the cure of many, nay, even of all, diseases; but, in truth, there are no such medicines. The medicines so much recommended in newspapers, and the majority of English patent medicines, are good for nothing.

2. 303. When people have received hurts on the exterior parts of the body, to whom are they to apply for affiftance?

A. To a surgeon.

2. 304. Is it very easy to attain a proper knowledge of surgery?

A. No. To become a good furgeon much fludy

and labour are necessary.

2. 305. Where ought those medicines to be bought

that are prescribed by a physician or surgeon?

A. In the stops of apothecaries who are authorised to fell medicines, and who are noted for order and clean-lines, as well as for the ability with which they conduct business.

Q. 306. Is the art of an apothecary eafily learnt?

A. No; it is very difficult; many years are required to become acquainted with all the medicines, to know their properties, and how to prepare them judiciously.

Q. 307. In what light are we to confider a physi-

cian in ordinary to a country ?

A. He is the head, or chief physician, particularly authorised by the king, or the college of physicians, to take care of the health, and cure the diseases, of certain patients; and who, in cases of epidemic diseases, such as dysentery, putrid severs, &c. is empowered to travel all over the country, for the purpose of investigating the causes of those diseases, and prescribing the most effectual remedies.

OBSERVATION.

In fome countries the chief business of physicians in ordinary is, to superintend and inspect all the apothecaries' shops in their respective provinces, to examine all the medicines, which, if good, they approve of; but they prosecute the apothecary and confiscate his medicines, if they find them spurious.

2. 308. At what period of disease is it most proper

to apply to a physician?

A. Immediately on the first attack.

2. 309. What knowledge and information doth a physician require that he may be able to cure a difease?

A. He must know the nature and the cause of the disease: it is therefore indispensably necessary to acquaint him with all the incidental circumstances and symptoms of the disease, and to lay before him the whole state of the patient from the beginning of the malady, with the greatest exactness and accuracy; he must know the constitution, and the manner of living, of the patient, and likewise every circumstance which might have operated in producing the disease?

Q. 310. What is therefore proper?

A. That the physician see and speak to the patient himself, and investigate the nature and cause of the disease.

2. 311. Suppose certain circumstances prevent this,

what must then be done?

A. An exact and circumftantial flatement of the case of the patient must be drawn by some intelligent person and sent to the doctor.

OBSERVATION.

In order to do this properly, every house-keeper, or, at least, every parish, in the country, in or near which there is no physician, ought to be in possession of certain rules, according to which such a statement may be drawn properly. I therefore apprize the public, that a book, much read in Germany, con-

taining such rules, and much other useful matter, is now translating and will soon be published.

2. 312 What is required of a patient under the care

of a phyfician ?

A. That he take the medicines which the physician has prescribed, faithfully, regularly, in due time, and in the dose prescribed.

2. 313. Is it to be expected that a ferious indisposi-

tion should be cured by one prescription?

A. No. As well may we expect a large tree to be cut down by one stroke of an axe, as a disease of any consequence to be cured by the first prescribed physic.

2. 314. If, then, the first prescribed medicine does not give relief, must the patient persevere in the use of

it, or employ another doctor?

A. The patient must continue to take medicine till the disease be cured; but he must not go from one doctor to another.

Q. 315. Is it sufficient that the patient take the me-

dicine prescribed, in order to obtain a cure?

A. No; it is not sufficient: he must observe a proper diet, without which medicines become of little use. Diseases are often cured by the healing powers of nature, affished only by proper regimen.

XXIII. Of the Conduct to be observed by Patients afflicted with Ardent Fevers.

OBSERVATION.

HOSE diseases are denominated febrile which manifest themselves by cold or hot sits, and an unnatural alteration in the pulse, commonly accompanied with dislike to food, vomiting, weakness, anxiety and pains all over the body, or in particular parts, and head-ach.

D. 316. A patient is a poor, helpless creature, oppressed by anxiety and pains ;-how, then, ought he to be treated?

A. With the greatest tenderness, kindness, and affection: he ought to be attended and nurled with

great and judicious care.

Q. 317. Is it proper to talk much to patients who fuffer under grievous diseases, or to make great noise and confusion about them?

A. No. Patients ought as little as possible to be diffurbed by talking; and every thing about them

ought to be quiet.

2. 318. Is it proper to admit vifitors, or many

persons, in the room where a patient lays?

A. No; because the air becomes corrupted by the breath and exhalations from fo many vifitors, who generally come through curiofity, and therefore ought not to be admitted.

2. 319. What ought to be the state of the air in

the rooms or chambers of the fick?

A. All patients, particularly those that labour under fever, ought to breathe fresh, pure, and dry air. 2. 320. Is fresh air so necessary for a patient?

A. Yes. It is indispensably necessary for him; for it is most effectual in cooling and composing him, and diminishes anxiety.

2. 321. What is further necessary?

A. That the room where the patient lays be aired by keeping the window open almost the whole day; that the windows and doors be thrown open occasionally, and that great care be taken not to expose the patient to gufts of air.

9. 322. What kind of room is best adapted for a

knid patient? an II-

Tight

A. A dry, lofty and large room; not a low, narcompose row, damp, and multy room: it must be kept clean and orderly, all dust and nastiness expelled, and noii, attthing suffered in it that can corrupt or infect the air.

2. 323. Should the room of a patient be lightsome

A. It should not be very luminous, but rather darkish, as the light diffurbs the repole of the patient.

2. 324. What kind of bed doth the patient require?

A. An orderly and clean bed, not too warm, with covering not too heavy, bed not too foft, and clean linen. If firaw be used instead of mattresses, it must be fresh and dry, and free from all offensive smell.

Q. 325. Is it good or bad for fever-patients to lay

on feather-beds?

A. It is hurtful; for fuch beds augment the fever, and make it worfe. Patients should lay on mattresses stuffed with horse-hair, or on straw, covered with a light quilt.

Q. 326. May two patients, or a patient and a per-

fon in good health, lay together in one bed?

A. No; every patient ought to have a bed to himfelf, and, if particular circumstances do not intervene, a room also: with respect to healthy persons, they ought not to sleep in the bed, or in the room, of a patient.

Q. 327. May the curtains of the bed be drawn in

which a patient lays?

A. No; because it deprives him of the fresh air.

Q. 328. Ought not the bed of a patient to be shook

and made daily?

A. Yes. A patient ought to be taken every day out of bed, at a time when he is not in a perspiration, that the bed may be made.

Q. 329. How ought a patient to be dreffed?

A. His dress ought to be clean and comfortable.

2. 330. Ought not the sheets of the bed, and the shirt or shift of the patient, to be changed?

A. Yes; they ought to be often changed; but the

clean linen substituted ought to be well aired.

2. 331. How ought the bed of a patient to be

placed?

A. Not near a cold, damp wall, exposed to a stream of air; but in an open, free situation, that the patient may be approached and assisted on either side without inconvenience.

2. 332. Is it proper to keep the heads of fever-patients, who are commonly very much affected with

head-achs, warm?

A. No: their heads are to be kept cool and uncovered, that the head-ach and delirium may not increafe.

OBSTERVATION.

By tying a bandage round the head the head-ach is often diminished.

2. 333. What are patients to drink, particularly thole who are afflicted with ardent fevers, which in-

duce thirftiness?

A. Cold, pure water, which has for some time been exposed to the air, and thereby loft the greatest part of its chillinels. In fevers it ought to be mixed with vinegar or lemon-juice. A piece of toafted bread may also be added, being a good ingredient.

2. 334. Is it good to warm or boil the water be-

fore it be given the patient?

A. No: it should neither be warmed nor boiled: for boiled water does not quench thirst nor compose the patient, nor is it at all good for such as are very thirfty.

Q. 335. Is it proper for patients to drink much tea?

A. No; it is commonly hurtful to them.

OBSERVATION.

The drinking of much warm tea is also very hurtful to women in child-bed; cold tea is preferable.

2. 336. Do fever-patients like to drink cold water? A. Yes. Cold water and fresh air are the best corroborants for fever-patients; they refresh, and diminish the anxiety and pains. Q. 337. Must a fever-patient drink much water?

A. Yes: he ought to drink a great quantity; to quench his thirst it is necessary.

2. 338. Doth cold water chill a patient afficted with fever ?

A. No; on the contrary, it makes him warm: a patient after drinking cold water falls often into a genial perspiration; and warm liquids frequently produce heat without any perspiration.

OBSERVATION.

In fluxes, pulmonic affections, and a few other difeafes, warm drinks may perhaps agree better with the patient than cold.

2. 339. May a patient labouring under fever drink beer, coffee, wine, brandy, or other spirituous liquois?

A. No; neither beer nor coffee; much less wine,

brandy, or other spirituous liquors.

2 340. What regimen ought a patient to observe?

A. Patients affl cted with violent fever, or who labour under any other dangerous malady, lose all appetite, and therefore are not to be pressed to eat.

2. 341. Why should not patients in a fever be pref-

fed to eat?

A. Because they do not digest; and food remaining undigested in the stomach aggravates all diseases, particularly inflammatory seyers.

Q. 342. Is it proper to admit a patient afflicted with the first attack of fever to eat, if he has an appe-

tite?

A. No; it is better for him to fast; for the eating of any thing readily increases the disease; fasting diminishes it; and there is no danger of starving.

2. 343. What kind of nourishment had best be given a patient in fever, should be be defirous of any?

A. Butter-milk, four milk, fresh, ripe, juicy fruits, raspberries, cherries, plums, grapes, baked or dried fruit, barly-water, or water-gruel mixed with vinegar or lemon-juice; and, in short, whatever can cool and refresh the patient.

OBSERVATION.

As fruit, whether fresh, dried, or made into jellies, is a most useful article, not only for the sick, but for general domestic use; and as sine fruit trees, are an ornament to a country, and a credit to the farmer; children ought, therefore, to be made

thoroughly fensible of the great utility of planting good found fruit-trees, to be inoculated with the choicest buds; and that it is their duty to promote the culture of fruit-trees with the utmost affiduity.

In the next place, it is proper to shew them how finful and shameful it is to damage fruit-trees, blossoms, or unripe fruit, or waste ripe fruits by throwing sticks or stones at them, or plucking them wantonly.

Near every burying ground there ought to be a plantation of fruit trees, propagated not from kernels only, but from fruits—from (for example) apples and pears, perfectly ripe, that have dropped or fallen from a found fruitful tree;—fuch are to be planted like potatoes, lineally, in a plowed land, and be covered with thin or little earth. Two or three years after, the two firongest of the four or fix faplings produced by each apple or pear are to be planted in an orchard or plantation, to ferve as stocks, into which eyons may be engrafted.

The faplings propagated from the fruit itself will be a great deal more healthy, more fruitful, and durable, than those that are propagated from kernels only; and, if proper cyons be engrafted into them (perhaps without), the most excellent fruits, in great abundance, may be expected.

2 344. What kinds of food are patients afflicted

with fever to avoid?

A. Viands, broths, butter, eggs, heavy pastes, or bread not well fermented or baked, are not to be allowed to such patients.

2. 345. When does their appetite return?

A. Not till the fever is cured, and reit and fleep reflored.

2. 346. Should patients in general labouring un-

der fever be kept warm or cool?

A. Such patients ought to be kept cool, avoiding all heat; and for that reason great fires must not be

made in the room where the patient lies, for his fituation requires him to be kept more cool than warm.

2. 347. Is it good to sprinkle persumes on the pa-

tient, or in his room?

A. Fresh air is better than all incense; but in malignant diseases it is very proper to correct the air by pouring vinegar upon red-hot iron repeatedly during the day.

OBSERVATION. .

John Howard, that friend to mankind, who, in vifiting and exploring prifons, hospitals, and lazarettos, facrificed his life for the benefit of the human race, faid, "The use of perfumes or in-"cense is a clear demonstration of the want of "cleanliness and fresh air."

2. 348. Is it good to take any physic to promote

perspiration ?

A. No; in most cases it is dangerous; many severs become by that means mortal. Such remedies or sluids that induce perspiration should therefore not be taken without the advice of a physician.

Q. 349. May a patient ill of a fever be bled?

A. It is in many fevers dangerous to bleed; and without the approbation of a physician no bleeding should take place in fevers.

2 350. But is it advisable for people in good health to accustom themselves to be bled annually once

or twice?

A. No. People that are in good health should never be bled; for by bleeding without necessity the blood is deprayed, the body weakened, and health impaired.

OBSERVATION.

Bleeding pregnant women once or twice during their pregnancy is a very bad cultom, hurtful both to mother and child.

2. 351. Are emetics prescribed by a physician dangerous? A. Emetics prescribed by a physician are not dangerous; they often do not weaken so much as purgatives.

OBSERVATION.

As many maladies, and particularly many fevers, originate in, or are connected with, a foulness of the stomach, emetics are often of very great fervice, as they expel all foulness from the stomach.

2. 352. Should those who are ill of fever be permitted to remain long costive?

A. No. In fevers costiveness is very dangerous.

OBSERVATION.

For persons whose general health is good, and who are slightly indisposed, stewed, fresh, or dried fruit, particularly plums, are a good remedy against cottiveness.

2, 353. If a person be fick, and at the same time collive, by what means ought he to be relieved?

A. By a clyster.

2 354. Are clyfters dangerous or doubtful remedies?

A. No; they are not.

2 355. What are we to observe with regard to the habit which some people have acquired of taking annually, at certain periods, purgatives?

A. It is a very bad cultom; and medicines fold by pediars and fuch vagabonds are commonly very per-

nicious

- 2 356. Ought children in good health to be purged often?
- A. No; it tends to nothing good; and in general the health of children should be preserved by proper attention, by nursing, and by much exercise in the open air, rather than by medicines.

2 357. Is it dangerous to bliffer in fevers, rheu-

matifins, gont, and many other difeafes?

A. No; for Spanish sies are not dangerous; they

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may be applied to little children, and render often much fervice.

2 358. Is it good to make use of plasters and salves

in cases of wounds, contusions, or ulcers?

A. No; plasters and salves seldom do good; in most cases they do more harm than good.

OBSERVATION.

In cases of ulcers on the feet, or St. Anthony's fire in particular, plasters and salves are carefully to be avoided, as very bad, and productive often of obstinate fores.

2: 359. What must be done with wounds that are not very large and deep, where neither a great vein nor

the bowels are hurt ?

A. The wound must be bandaged with a dry linen cloth, without being previously washed or cleansed with brandy or water; for the blood, which is better than all plasters and salves, will perfectly cure the wound without any suppuration.

Q. 360. What is best to be done in cases of contu-

fion ?

A. Linen cloths dipped in equal quantities of vinegar and water should be continually applied cold to the injured part: the pains will thus be abated, and the extravasated blood absorbed.

OBSERVATION.

Little ulcers may be dreffed with lint; or apply a linen bandage dipped in vinegar.

2. 361. How are scalded parts to be cured?

A. If (exactly as directed for contusions) linear cloths dipped in cold vinegar and water be applied from the beginning, and repeated every quarter of an bour, the burns will be cured better than by players and salves.

BSERVATION.

Vinegar and water (equal parts) cures also fore ples. Mothers may prevent foreness of the by washing them often in cold water before and after delivery.

XXIV. Of Difeases which universally prevail; of Endemial, and of particular Maladies.

Q. 262. IF diseases be very rife, and attack many, must the healthy take medicines, with a view of escaping from infection?

A. No; a healthy person should never take physic. 9. 363. Should not people in such a case purge,

take emetics, fweating potions, or be bled?

A. No; fuch weakening remedies would fooner beget than prevent infection.

2. 364. Is it good to take corroborants for the

ftomach ?

A. No; they are more hurtful than beneficial.

Q. 365. What should a person in good health do

to escape general contagion?

A. He should be very temperate in eating and drinking, observe cleanliness, take a great deal of exercise, and be careful not to over-heat himself or to eatch cold.

OBSERVATION.

In times of scarcity putrid fevers and contagious diseases, which sometimes depopulate whole provinces, are caused by eating bad bread, and by unwholesome food in general.

Q. 366. Is no other precaution necessary?

A. Yes; and as diseases that generally prevail are often contagious, we should not expose ourseleves to

danger by viliting patients, nurses, or hospitals.

2. 367. When certain diseases, for instance, the ague, are endemial, and that stagmant waters or morastes in the neighbourhood are the causes of such severa, what should the inhabitants do?

At They ought to drain the waters and dry the moralles and the fever will cease; for with the cause

the effect naturally ceafes.

2 368. If mechanics or artists be often attacked by diseases peculiar to them, a stone-malon, for instance, with consumption, painters with cholic, what ought they to do?

A. They ought, as fenfible men, who wish to be healthy and live long, to investigate the true cause of their frequent disease, and strive to find out how they.

can diminish or avoid it.

OBSERVATION.

Those who lead a sedentary life, semales, mechanics, artists, the studious, ought, from their infancy will the complete shedding of the teeth in the twelfth year, to be exhorted or obliged to take a great deal of bodily exercise in the openair, in order that suture inactivity and confinement may not injure their health and happiness too much.

XXV. Of Contagious Diseases.

2 369. WHICH diseases are peculiarly con-

tagious ?

A. Putrid fevers, spotted fevers, dysentery, the yellow and scarle fever, small pox, and measels. The plague, the worst of all diseases, is very infectious?

2. 370. How do they communicate infection?

A. By contact, or through the medium of the atmosphere, impregnated with putrid miasms, arising from the perspiration of patients labouring under any of those diseases.

2 371. What is particularly to be observed with respect to alleviating the symptoms which obtain in

contagious difeafes ?

A. The air, as well in the room as in the house where the patient lies, ought to be preferved continually pure and fresh, by keeping one window always, and the windows and doors occasionally, open. In short, one cannot be too assiduous in procuring constant fresh air.

Q. 372. What is further to be observed?

A. The greatest cleanlines ought to be observed with regard to the patient, the bed, the room, and attendants, observing not to keep the room too warm.

2. 273. What else should be done to guard against

infection?

A. Previous to vifiting a patient we should take some nourishment;—we should however, avoid eating any thing in the apartments of the sick; guard ourselves against infection by good cheer and fortitude, and, as far as we can, administer relief and comfort.

2. 374. What duties do those who are intrusted with

the care of patients owe to their fellow creatures?

A. They ought, in order to prevent the infection from fpreading, to keep by themselves, avoid all unnecessay intercourse with other people, and not enter any school or church; and the children and domestics of patients should be placed under the same restraint.

OBSERVATION.

To schools contagious diseases are often communicated by children, and so spread to distant parts.

2. 375. May many perfons be admitted into the room of a patient who is infected with a contagious difease?

A. None but those that are intrusted with the care of the patient; and all curious visitors should be refused

admittance without any ceremony.

2. 376 Why is it a duty incumbent on the healthy to avoid approaching an infected person when there is no pressing necessity that impels us to expose ourselves to contagion?

A. Because self-preservation, and what we owe to our

families and fellow-creatures, directs us not to endanger our own health, and especially not to endanger the health of our fellow-creatures.

2 377. If an infected person dies, what is then to be

done?

A. The corple must not be exposed to public view, but buried as soon as possible, avoiding suneral pomp, and admitting but sew to attend the bier.

2 378. Is not the itch a contagious difease?

A. Yes; it is a mast abominable distemper, which is communicated very readily by contact with an infected person.

2.379 What must be done to escape this disease?

A. We must avoid the company of infected persons.

OBSERVATION.

Children who have the itch or fourfy heads flould not be admitted into schools, that other children may not be infected. If school masters, as it is their duty, would take the trouble of examining the hands of their pupils, and would command them to be washed daily before coming to school, children so infected would soon be found out.

2. 380. Is it dangerous in cases of itch, scurf, or leprofy, to use sulphur ointment?

A. Yes; it is very dangerous; and may occasion losa

of health, blindness, and deafness.

XXVI. Of the Small-pox.

2. 381. FROM what can the degree of danger in small pox be conjectured?

A. Chiefly from their number. If the pullules be few

There is little danger; but where they are many, and confluent, the danger is great.

2. 382. What is therefore lucky?

A. To have but few pullules.

2 383. At what period of the difease may we ap-

prehend danger ?

A. Not at the beginning when the pullules come forth, but towards the end, when they suppurate and dry, and when the matter is absorded into the system and excites a secondary sever.

2. 384. When a child has symptoms of being infected with this discase, is it proper to have recourse to wine, brandy, warm rooms, and feather beds, to forward the eruption?

A. No; it would be acting very injudiciously; for by fuch means we would increase the number of pushules.

and confequently the danger.

2. 385. What is then to be done?

A. The cure must be left to nature, observing only, during the period of the eruptive fever, which lasts two, three, or four days, to keep the patient cool and in fresh air, allowing him but little nourishment, and cold water only for drink.

2 386. When at last the pustules are forced out by the sever, what must be done in the course of the disease,

and during the concuction of the matter?

A. We should keep the patient in a situation where the air is pure and dry; give for drink cold water, and enjoin temperance and moderation in eating and drinking.

2 387. Is it good to lie in bed in the day-time at the period of the eruptive fever, before the eruption of the small pox, and during the whole course of the disease?

A. No; it is not good in the day-time: the patient, if possible, should keep out of bed, end at night lie in a bed that is not too warm nor fusly; feather-beds are therefore very hurtful to this class of patients.

2 388. When the eye-lids are ulcerated and closed, is it right to force them open, and apply to, or blow into

them spices, or other hot things ?

A. No; the eye-lids must not be forced open, or meddled with, nor ought inflammatory things, whch induce blindness, to be applied to them; but when at last they open of themselves care must be taken that they be not irritated by too much light in the room, which should be kept darklome, both before and after they open. Particular attention is also to be paid to keeping the air in the room pure and cool.

2. 389. Is great mortality occasioned by the small-

pox ?

A. Yes; in general out of ten patients labouring under the natural fmall-pox, one dies.

ADDRESS TO CHILDREN.

Children, the natural small pox is a bad distemper—as bad as the plague! But an omniscient Being has, in his goodness, enabled man to find out a remedy for the alleviation of the great miseries occasioned by it. He has led us to the important discovery of inoculation, which destroys in a great degree the virulence of this baneful disease, which at last, we may hope, will be entirely eradicated.

When children are inoculated they have only a few puffules of the best kind; they are seldom confined to bed; seldom lose their health; and of a hundred inoculated hardly one dies; whereas one out of ten of those afflicted with the natural small-pox gene-

rally dies.

2. 390. Do you wish to be made aquainted with the process of inoculation?

A. Yes; if you will be so kind as to explain it.

INSTRUCTIONS HOW TO INOCULATE.

In order to inoculate a child in a good flate of health, a needle is dipped in a little fresh, thin small-pox-matter of a child that is infected with a good, distinct, and true small-pox, with sew pussules. With this needle an incision is made of the breadth of a straw under the scars show the elbow, without drawing any blood, so that the matter shall be lodged under the upper skin; and this is called inoculation for the small-pox.

The effect produced, and the conduct to be observed by the patient, I shall point out, and is as follows: Having the great advantage of knowing to a certainty that the person inoculated mult have the small-pox within ten or sourceen days, the strictest regularity and temperance with re-

gard to diet is to be enjoined.

The fourth, fifth, or fixth day the incisions become inflamed, red, thick, and hard; and from this time till the complete restoration of the patient to perfect health, the incisions, which are often much inflamed, and from which a great deal of matter oozes, ought to be repeatedly washed every day with cold water.

The feventh, eighth, or ninth day after the inoculation the patient feels pains under the arms, and is attacked by head-achs, fever, and fometimes

vomits.

This fever lasts two, three, or four days, during which period the patient should not remain in bed, but, though it may be very inconvenient in the beginning, walk, or be carried, about where there is fresh, pure, cool air, which is absolutely necessary.

In free and cool air fever and head-ach vanish; and if the forehead and arms be frequently washed in

cold water, almost all illness will go off.

The fecond, third, and fourth day of the fever, or the tenth, eleventh, or twelfth day after inoculation, fometimes later, the small pox come forth of their own accord: they ought not to be forced to make their appearance.

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In most cases there are very few pullules, which, being very good, the disease is foon at an end. The pullules in this case contain very little matter, and dry foon; and it is only necessary to keep the patient regular and in fresh air, to prevent the disease from becoming dangerous.

2. 391. But tell me, my dear children, may inoculation be performed in a place that is yet free from

the contagion of the small-pox?

A. No; because the small pox is a contagious disease, and by inoculation might be carried to distant parts, and, what would be a great missortune, occasion the death of many children that otherwise might have escaped infection.

2. 392. But may inoculation be performed in places

which are already infected?

A. No; even that is wrong; for the inoculated may infect one fingle person, and be the accidental cause of his death.

2. 393. Where, then, should children be inocu-

lated?

A. In houses set apart for inoculation, that are erected for that purpose at a proper distance from other habitations, and where there is no danger of insecting other people.

ADDRESS TO CHILDREN.

You are right, children; inoculation should only take place in houses devoted to that purpose; whoever acts otherwise commits a crime against society.

2. 394. Can a person be insected twice by the

fmall pox?

A. No; the true fmall pox cannot infect the fame person more than once: all stories of getting the in-

fection twice are erroneous.

XXVII. Of the Meofles.

2. 395. A RE the measles a bad distemper?

A. Yes; they take away the lives of many; and

even after they go off leave behind complaints which too often prove fatal.

Q. 396. What may particularly be observed with regard to this disease, whose action is so inimical to the

breaft or lungs?

A. Patients afflicted with it must be kept a little warmer than is necessary in cases of small-pox, but not too warm; they ought to breathe pure air, and drink elder-slower tea; and great care is to be taken that they do not expose themselves to cold air or sudden gusts of wind.

2. 397. When this difease goes off, what are we to do for the patient, that, from the injuries done to his constitution, he may not fall a victim to consump-

tion ?

A. The patient for fome time must guard against the open air, and put on warm cloathing.

OBSERVATION.

This necessary precaution ought also to be taken in cases of yellow and scarlet severs; for as in these diseases, as well as in the measles, the whole scars skin scales off, it is very easy to catch cold, the consequence of which would be dropfy, consumption, or other bad and fatal complaints.

XXVIII. On the entire Extirpation of the Small-pon and Meafles.

ADDRESS TO CHILDREN.

DEAR children, the small-pox is a kind of plague, nay, worse than a plague, causing still more misery. In Berlin, 1077 persons sell victims to this disease in 1786; in the duchy of Mecklenburgh Schwerin, 2695 in 1791; and in Upper Silesia, 5584 in the space of three years. From the year 1650 till 1750, being a century, 152,461 persons fell sacrifices to this baneful disease in London;

and in Sweden, 95, tot lost their lives by the small-pox and measles in the space of eleven years. One thousand years ago the small-pox was not known in Europe. It was transmitted to us from the burning regions of Africa, where the plague is endemie; and, owing to our ignorance and inattention, has established itself among us. Every one, almost without exception, contracts this distemper, either through his own fault in exposing himself imprudently to the insection, or by being exposed by others; and one patient out of ten is generally cut off.

If we now but for a moment confider the numbers that are swept away by this disease—the thoufands and hundred thousands of the human race that perish through its baneful influence, we must confess it is one of the greatest and most horrid

plagues that human kind has to encounter.

Q. 398. But perhaps this African plague is an evil

necessary for the human race?

A. No; it is not a necessary evil; else it would have prevailed among us from time immemorial; whereas, one thousand years ago every one enjoyed a good state of health, without having had the small-pox.

2. 399. You are right, children, the small-pox is not natural to the human race, or conducive to health. Tell me, then, how is this disease communicated?

A. -By infection only.

2. 400. But cannot people contract it by an irregular method of living;—by irregularity in eating and drinking, and exposure to an inclement sky?

A. No. It can only be propagated by infection float-

ing in the atmosphere, or by inoculation.

2. 401. If therefore a person takes great care not to be infected, what follows?

A. That fuch a person escapes the disease.

2. 402. And if every one living were to take the fame precautions to avoid infection, what would be the confequence?

A. That no one would ever be affliced with the small-

pox.

2. 403. And if no one were to be afflicted with the small-pox, no one therefore could communicate it to another; what then would be the natural confequence?

A. That the small-pox would be completely exter-

minated.

ADDRESS TO CHILDREN.

Children, liften to me. The plague is just like the fmall-pox, a difeafe which cannot originate itfelf, but must be communicated by contagion. In former centuries the plague was very common and generally known. It raged in Germany in the years 1712 and 1713; and in London in 1665 and 1666. To this wide-walling pellilence one third of mankind have often fallen facrifices. But people at last grew wifer. The infected were feparated from the healthy; all communication with towns and places, where the plague raged, was cut off, and every possible care taken to prevent the contagion from spreading; fo that at last this scourge to human kind was radically extirpated.

The small-pox is as shocking and dreadful in its effects as the plague, and might as eafily be extir-

pated.

2. 404. What do you conclude from this?

1. That it is the duty of man to extirpate the fmallpox, and that without any lofs of time.

ADDRESS TO CHILDREN.

You are right, children, in faying that it is the duty of man to extirpate the small-pox, and to take immediately the most effectual measures for ob-

taining so defirable an end.

The best regulations have been made with regard to preventing or curing the diseases to which the brute creation is obnoxious. It would therefore be a great and just reflexion upon mankind if they

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neglected using every possible means for exterminating the small-pox,—a horrid disease, which robs the earth of the tenth part of its inhabitants, and spreads misery and devastation among the infant poor, whom it afflicts with excruciating pains and torments.

It is then a confolation to observe that this disease can, and therefore ought to be extirpated in the

following manner.

But it is proper first to inform you that the matter of the small-pox, whether sluid or dry, contains the infectious poison, which is capable of propagating the disease; that the air which we breathe is not contagious, and perhaps only becomes so when saturated with a great quantity of putrid exhalations from patients, and that therefore it behoves us to keep the air fresh and pure.

XXIX. Infiructions how to Exterminate the Small-pox by eafy Means, in which every Individual is bound to concur.

1. In the environs of every city and town, a house, built agreeable to a particular plan, should be appropriated for the reception of patients infected with the small pox; and there should be an adjoining building of lesser size.

OBSERVATION.

The expenses of such an undertaking will be inconfiderable. At Berlin only, in a single year, 1786, one thousand seventy-seven persons sell miserable victims to the small-pox. What, then, is the expense of an hospital, when compared with the loss to the community of so many of our fellow-creatures?—Nothing!

2. All inhabitants of adjacent towns and villages, even travellers, ought to contribute towards the support

of this hospital, as all are interested in its establishments

2. All those who live within the district where the hospital is built, even the children in the schools, should be provided with a complete description, elucidated with prints, of the various diagnostic fymptoms of the real small-pox, and the duty, necessity and utility of delivering over infected persons and children to that hospital, should be pointed out and inculcated.

4. As foon as any person, young or old, poor or rich, inhabitant or stranger, has received the contagion, fuch perfon fhould immediately, and without any lofs of time, be fent to the hospital, and thus be separated for a little time from that fociety to which he had become dangerous. This is unavoidably necessary, and a duty we owe to the community at large. But as foon as holpitals for the small-pox are properly established, this disease will become far less frequent, and will only take place with a few; for every body, from a dread of being fent to the hospital, will do all he can to keep himself and family free from the infection.

5. The names, both christian and furname, and the places of abode, of all infected perfons, should be accurately pointed out and published in feveral newspapers, and information thus given that certain persons, properly described in the advertisement, have been sent to the small-pox hospital (specifying the county in which fuch hospital is fituated); an inquiry should then be made respecting the source of the infection thus communicated, and all persons suspected taken up and

fent to the hospital.

6. When the patient arrives at the hospital, he is first introduced into the adjoining building, there stripped of all his clothes and linen, and provided with clean

and wholesome apparel.

7. The clothes he has taken off are cleaned, washed,

fumigated, and exposed to fresh air.

8. The patient in the hospital is placed under the care of nurles, whose duty it is carefully to attend him, and provide him with the best and cleanest food. He has besides the assistance of the ablest physicians and furgeons: in fhort, the tenderest care is taken of him.

9. Whoever is to be inoculated should be fent to the hospital, for inoculation should not be permitted any where else.

10. None but such as have had the small-pox ought

to be admitted into the hospital as visitors.

11. Parents may attend in the hospital and nurse their own children, and friends their friends, provided they have had the small-pox; if not, they must suffer themselves to be inoculated, and submit to the order of the house.

12. The nurses appointed to attend in the hospital, and even parents that nurse their children, are to make very sew excursions from the hospital; none secretly or clandestinely; but, if they must go out, they should always first take off their infected clothes, wash them selves in the baths of the adjoining building all over, and particularly the hair, and then put on clean, uninfected clothes; and this rule ought also to be observed by every body that enters the house.

13. The physician and surgeon ought to change their clothes and linen in the adjoining building, before they enter the hospital; and before they depart should wash at least their faces and hands, and change

their clothes.

14. Forty or fixty days after the complete extirpation of this horrid plague, the patient, after he has been well cleanfed, washed, and bathed from top to toe, and after having put on clean clothes and linen, is restored to society, which circumstance should be published in the newspapers

15. Eight days after a patient is discharged in good health from the hospital, he is to be brought to the temple of God, where Te Deum is to be sung by the

whole enraptured congregation.

ADDRESS TO CHILDREN.

And thus, dear children, in so easy a manner, and by so excellent an institution, the most horrid and difguffing difease—a difease which configure to mifery and death a great portion of mankind —may be thoroughly extirpated. European nations will at last become sensible of this truth, and see the absolute necessary of exterminating a plague, which must vanish from among them if

they only will it.

If a few hospitals, such as I have described, were erected, many towns and villages would be freed from this disease; and distant nations would follow the laudable example of erecting public edifices to restrain and diminish the insection of the small-pox, and banish it from villages, towns, and provinces.—And, dear children, rejoice with me in the glorious prospect of their success.

In ten or twenty years the plague called the smallpox, which torments and sweeps annually from the earth the tenth part of the human species, will, if the plan proposed be adopted, be entirely

exterminated.

2. 405. But tell me, children, could not the fmallpox be exterminated in a shorter period than ten years?

A. Oyes; it could be extirpated in a much shorter time, if man (and it is his duty) would immediately and seriously begin to make the necessary arrangements for it, and erect hospitals.

OBSERVATION.

The extermination of the small-pox has actually taken place in Louisiana and Chili, and other countries. In North America, in Rhode-Island, which is very populous, fourteen miles long and seven broad, enjoying a great commerce, inoculation is prohibited; but every person infected by the small-pox is immediately removed to a small island at a short distance, called Coasters' Harbour, and is compelled to stay there till all danger of infection has ceased.

Dr. Waterhouse says of these regulations, "The "terror which this contagion has spread among

"the inhabitants induces them cheerfully to sub"mit to them; and should a stranger suppose
"that they cannot be observed so serupulously
"without compulsion, he will find himself mis"taken. The unanimous voice of the people,
"and the vigilance of the magistrates, insure the
"desired effect; so that the regulations we allude

"to feem to be more the custom of the country than a restraint imposed by the law."

Even a certain people that are held in universal detestation on account of their uncleanlines, ignorance, and barbarity, the Hottentots, when the small pox first began to exert its baneful influence amongst them, separated the sick from the healthy by ramparts, at which sentiness were placed, and thus the spreading of the contagion was prevented.

—And we Europeans, with all our civilization, reason, and sciences, are we to yeld the palm of humanity to Hottentots?—Forbid it, Heaven!

The measses also, in all probability, first made their appearance in Africa, whence this disease was brought over to us, a thousand years ago, with the small-pox. Like the plague and the small-pox, it is not a necessary evil: it is propagated only by infection; may be considered as a very bad disease, which is often fatal. In 1751, five hundred and twenty three persons died of it in Berlin, in the space of eighteen weeks.

2. 405. Would it not be possible to extirpate the

meafles as well as the small-pox?

A. Yes; and in the fame manner, and by the fame regulations, as those pointed out for the extirpation of the small-pox; and it is our bounden duty to attempt it.

OBSERVATION.

If the scarlet fever, dry or hooping cough, and the itch also, were only propagated by infection, they might be exterminated with equal success.

XXX. Of the Bloody-Flux, or Dysentery.

Q 407. AT what feafon doth the bloody-flux commonly appear?

A. In the fummer, but mostly in the autumn.

2. 408. Is the bloody-flux a bad and dangerous dif-

A. Yes; it is a very malignant difease, exposing the patient to great danger if he be improperly treated.

2, 409. Is the bloody-flux the confequence of eating

A. No; ripe, sweet, juicy fruits, particularly grapes, rather prevent, than produce this disease.

Q. 410. What precautions ought to be taken to avoid

infection ?

A. People should be very careful in avoiding cold, especially observing to keep the belly warm; eating much ripe fruits particularly grapes, and good meats.

Q. 411. What is further to be observed ?

A. The new corn, before it is made into bread, ought to be perfectly ripe and dry; and the bread made of it ought to be thoroughly baked, and not be eaten when warm or too new. New unripe potatoes are dangerous also, and all vegetables which are often blighted or injured by infects ought to be well washed and cleaned before they are boiled.

412. The flomach and bowels of patients labouring under dyfentery are filled with bitter, acrid, and putrid matter:—Is it proper to endeavour to flop the progress of the disease by confining this matter, the canse

of the difease, in the stomach and bowels?

A. No; The stopping of the bloody flux would endanger life; but the body ought to be cleanfed by emetics and purges immediately at the beginning of the disease. 9. 413. What ought therefore to be avoided?

A. The stopping of the flux by the fat of mutton, fweet oil, spices, pepper, Venice treacle, wine, or spirituous liquors, which endanger life.

2. 414. What is further to be observed, as the

bloody-flux is often infectious?

A. The greatest cleanlines; filling the patient's chamber with fresh air, and taking great care that any excrements, as soon as voided, be carried out of the room and buried under much earth.

Q. 415. Is it necessary to consult a physician in case

of dylentery ?

A. A physician ought to be consulted in every disease, particularly in dysentery, which is extremely dangerous.

XXXI. Of Treatment, after Difeases are removed.

Q. 416. WHAT ought to be observed after

heavy difeases are removed?

A. Regularity and temperance in eating and drinking, taking only light neurithing food, and observing not to expose ourselves too foon to the weather.

2. 417. And may a person just restored to health set

to work immediately?

A. No; a person just risen from the bed of sickness ought first completely to recruit his natural strength and vigour before he begins to work again.

XXXII. Of Public Institutions for the Sick.

OBSERVATION.

CHILDREN, if we consider the numberless unhappy and miserable wretches that are scattered over the surface of the earth, afflicted with diseases and poverty, unable to promote their own or the happiness of their fellow-creatures, depending on the bounty and labour of others for their support, causing embarrassment, anxiety, and trouble to society, to whom they are unable to make any compensation, we must acknowledge that diseases are evils of the greatest magnitude,

afflict, not only particular individuals but the community at large, and imbittering the cup of life.

Q. 418. By what means can people avoid those evils?

A. By observing the two following rules:

t. That all persons, particularly children, be instructed respecting the nature of the human body, and the means of preserving health, with a view of extending life beyond the usual period, and guarding ourselves as much as possible against disease and death.

2. That all patients receive the best attendance and nursing, and all possible assistance and help from physi-

cians and furgeons.

2. 419. Do all patients receive such necessary attendance and assistance?

A. No; they are too often neglected.

2. 420. What reasons can be affigured for the greater number of patients not receiving the necessary affishance and attendance?

A. The ignorance, the poverty, and the mifery of so many people; their wretched and unwholesome habitations; want of constant fresh air; uncleanlines; bad, loathsome beds; and the indigence of so many people, which prevents them from calling in a physician or surgeon, or procuring medicines.

ADDRESS TO CHILDREN.

You are right, dearest children; diseases not only become through those circumstances dangerous and mortal, and sources of the greatest misery to patients and their families who live by their industry only, but they also become at last contagious, and spread their baneful insuence far and wide over the human race.

It is true that people may be delivered from their ignorance by proper instructions regarding the attendance and nursing of patients, and thereby be rendered capable of serving their fellow-creatures; yet all patients cannot help themselves; and there will be fill many poor fufferers left, who in vain will demand or feek for affiftance.

2. 421. What, therefore, should we do for the prefervation of the lives and health of our poor felloworeatures?

A. We ought to erect every where hospitals, or appropriate houses for the same purpose; and take care that all poor, indigent, diseased persons find in those habitations the best accommodations; or that every affishance be administered to them gratis * in their own houses, which ought to be kept clean. Patients in either case should have the affishance gratis of such physicians and surgeons as are generally esteemed for their rectitude, humanity, and abilities,

Q. 422. Why should man establish such institutions?

A. Because it is his duty.

ADDRESS.

Yes, dear friends, it is your bounden duty to creek hospitals for the reception of your poor, sick, helplefs, unfortunate brethren—for we are all children of the All-Bountiful Heavenly Father, who ordained mutual love and charity among mankind, and beholds the mansions of the sick and unfortunate as temples erected to Himfelf.

2. 423. What good may we expect from fuch inflitu-

A. That human mifery will be diminished, and the lot of mankind meliorated.

Dr. C. L. Lenz has made the extirpation of the small-pox, the measles, and all contagious maladies, the chief object of his life, his researches, and his studies; and those works of his which treat of these weighty concerns, so very important to the human race, and which are intended to be published, deserve the greatest atten-

^{*} Res facra est miser. Misery is facred.

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tion. As foon as completed, I shall presume to offer the public a correct translation of them, for which I have made the necessary preparatory arrangements.

THE TRANSLATOR.

OBSERVATION.

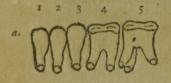
It would be highly meritorious in physicians to inflruct the school-masters of their respective districts in the contents of this Catechiim of Health, which is also translated into most of the European languages, and universally adopted in schools as a book of instruction.

ORDER OF THE HUMAN TEETH.

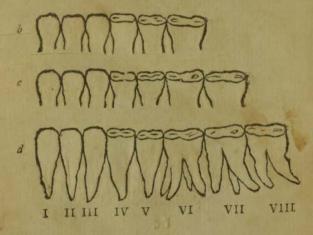
J. Hunter's Natural History of the Human Teeth, London 1771.

Sommering's Doctrine of Bones, P. XVIII. and page 192-223.

A. Milk Teeth.



B. Lafting Teeth.



The number and strength of the teeth depend on the nourishment of the body by solid food, and on the health and strength of the human body. The most remarkable changes, respecting the number, as well as the strength, of the teeth, take place during infancy, and from the period of youth till the age of maturity; and our education ought to accord with this divine ordination of nature.

The first row of teeth (a) is that of a child. Te second (b) that of a boy and girl. The third (c) that of a youth and virgin. The fourth (d) that of a man and woman.

I and 1, II and 2, are two cutting-teeth; III and 3, are corner or eye-teeth, and IV and 4, V and 5, V1, VII, VIII, are jaw-teeth, molares; of which the child has on each fide of each jaw two, boys and girls three, youths and virgins four, and men and women five.

THE ORDER AND THE PERIODS. OF HUMAN LIFE.

I. FORTUS

(generated by healthy Parents):

II. SUCKLING.

III. INFANT.

Cutting of the Milk-Teeth in both Jaws.

Month	M. T.	1	2	3	4	5
8	2	2	0	0	0	0
10	4	4	0	0	0	0
12	8	4	4!	0	0	0
16	12	4	4	0	4	0
20	16	4	4	4	4	0
1 24	20	1 4 1	41	4	4	4

IV. CHILD.

Perfect Milk-Teeth in both Jaws.

Years	М. Т.	1	1 2	3	4	5
3 till 7	20	4	4	4	4	4

V. DISCIPLE.

Shedding of the Milk-Teeth in both Taws.

	Year	M. T.	1	2	3	4	5	
	7	18	2	4	4	4	4	
	8	14	0	2	4	4	4	
	9	10	0	0	4	2	4	ı
	10	6	0	0	4	0	2	۱
	II	2	0	0	2	0	0	l
ı	12	0	0	0	0	0	0	ı

Cutting of the Lasting Teeth in both Jaws.

Year	L. T.	I	11	III	IV	V	VI
7	4	0	0	0	0	0	4
8	8	14	0	0	0	0	4
1 9	12	4	4	0	0	0	4
10	16	4	4	0	4	0	4
II	20	4	4	0	4	4	4
12	24	4	4	4	4	4	4

Lasting Teeth in both Jaws.

Years	L.T.	I	II	III	IV	VI	VI	VII	VIII
till 160r18	24	4	4	4	4	4	4	0	o {VI Boy and GIRL.
36or 18 till 20or 24	28	4	4	4	4	4	4	4	c VII Youth and Virgin
20 or 24 till fe- nile age	32	4	4	4	4	4	4	4	o WIII Man & WOMAH

IX. SENILE AGE.

X. CLOSE OF LIFE,

STATE OF PERFECT HEALTH.

THE health and happiness of mankind will be brought to a state of perfection when marriage is ordained to take place only between healthy persons, descended from healthy parents; for the first and most important requifite to a state of perfect health to endure till fenile age is, an origin from healthy parents.*

The next chief requifite to a perfect and lalling state of health, is, that the suckling and infant experience in the highest degree possible the love and care of the mother; that children, without any diffinction as to fex, be clothed in the garment represented in the frontispiece; live in society with other children in the open air, and fo improve their bodies and their minds.

And it is also of great importance that the body. after the twelfth year, or after the shedding of the teeth, be ftrengthened and improved by exercife and gymnaftic

Sports.

When, belides, people shall constantly breathe pure air, drink cold, pure water, eat fimple, good food, wash and bathe, and keep themselves perfectly clean; and by cultivation, render barren and unhealthful tracts of ground fertile and falubrious, and when Peace and Charity, guided by Reason and Virtue, shall extend their empire over the world-then, and then only, shall univertal health and happiness prevail, and mankind enjoy the purest felicity.

But this glorious revolution in the manners, cuftoms, and constitution of people of all descriptions, can hardly be expected to take place till that horrid pestilence called the fmall pox is banished from the earth. That, then, it may foon be extirpated, and that this

little book may increase universal felicity,

Grant, ALMIGHTY GOD!

Dr. Benjamin Rush in Philadelphia confirms this truth.

DECREE

OF

HIS SERENE HIGHNESS

THE

PRINCE BISHOP OF WIRZBURGH,

TO THE

BAILIFFS OF THE HIGH METROPOLITAN CHURCH OF WIRZBURGH AND ITS DIO-CESES,

CONCERNING

DR. FAUST'S CATECHISM OF HEALTH.

Is Serene Highness has ever confidered the tenderest paternal care for the preservation of the health of his loyal subjects as his principal and noblest duty. In conformity to these principles he has employed every means of expelling from his bishopric all forts of vagabonds and quacks, practising without any authority, and has actually established, even in the country, at certain proper distances, able physicians and surgeons.

However, as the appointing of such physicians and surgeons is not alone sufficient to make people who stand in need of medical assistance sensible of the necessity and utility of such regulations and instructions as tend to preserve and point out the mode of restoring health, it has been for a long time one of the most ardent wishes of His Serene Highness to see a doctrine of health introduced into schools and blended

with the ufual inflructions.

His Highnels by no means intends thereby to convert schoolmasters into doctors, or cause children to acquire any medical knowledge, but rather to make

people attentive to their health; to infiruct them how to effect this great bleffing, and how to preferve it; to acquaint them with the most usual maladies; to exterminate the very dangerous custom of self-treatment, and the making use of domestic remedies; and to make his subjects in general sensible of the indispensible necessity of committing themselves to the care of proper physicians and surgeons in all cases of illness.

The Catechifm of Health of Dr. Faust, lately published, seemed to His Screne Highness the best book to answer these excellent purposes. He therefore was graciously pleased to order a very considerable number of copies (2000) to be bought and distributed gratis amongst the Ichoolmasters of his extensive dominions.

All bailiffs, therefore, are hereby firstly charged to transmit to each schoolmaster of every parish within their bailiwicks, one copy of the annexed Catechism of Health, with the following directions:

1. Each schoolmaster shall enter the copy sent to him in the common inventory of books, that it may be transferred to his successor.

2. Schoolmalters shall explain the different sections of the Catechism of Health once a week, at a certain time fixed by the curate or priest of the parish, and each time enter on a new subject.

3. Each fection of the Catechism is to be transcribed by the children into their copy books, that a more lefting impression may be made on their minds.

The bailiffs are particularly directed to remind schoolmasters of those directions; and His Highness positively orders that this business shall not only be strictly investigated at the monthly examinations, but also at the episcopal as well as school visitations. Decretum Wirzburgh, the 31st of December, 1793.

By Special Command of His Serene Highness,

To the Commissioners of Schools appointed by Episcopal Command.

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