

CIHM Microfiche Series (Monographs)

ICMH
Collection de microfiches (monographies)

The lnotiture has attompted to obvin the trept cricinel

 of the lanigex in the raprederition, or which aicy
 chectred tratow.

L
Celoured covera/ Commerture de coviliou:


Covirs chmeged/
Coniverture endeminnede

$\square$
Coweri-restoried and/or laminated/
Counerture restmente et/oe pellieulle


Cover titie mimelnal
Le titre te couverture manaue


Coloured minal
Certise choprapiniaves en corichur

$\square$
Coloured inth (i.s. other then bine or bleck)/ Enere do coctair (i.e. autre yex bowe ow noire)

Colourod pletes and/or illumetrstiens/
Panches et/ou illmitratiom en coulour


Bound with other manvial/
Rofis ame drautres doelinnents


Tiyte bindling moy expere shadows or distortion along intwrior maergin/
La rolivere suirite paut epacier de l'ombres ou de to ditrincion to fony do le meres intivieure


Blink lowes adocd druing restoration moy appear within the caxt. Wheorior posilibe, thaep have beon omituod from filmingl
II se pair quo certaines mame blanches dourties fors drume repteuration apperciment dens lo evxte. mais, lormine cela finit possible, ees maies n'ont pas itt filmies.

Additional comments:/
Commentaires eupaiémentaires:





 efincoove.

$\square$Colominel meanal Prime to toulan.
$\square$ Page demmened
Prame endommanionPape restored enafor lavinitital/
Pages restemites ce/ou pallinuilies

 Pripe Heolertes, teatrotios ou piaicios

Pa, es cretsolval!
Peges elituchices


Showtrrouph/
Tramperwince
Ouality of print varies/
Oudits incigale da l'improssion
Continyous pegination/
Pecination continicincludes indexi(des)/
Comprend un (des) indox

Titte on heeder taken from:/ Le titre de l'em-ate provient:

$\square$
Titie pere of inove) $\therefore \quad \therefore \quad$ Se
Pape de titre de la livraisonCaption of issue/
Titre do dippent de la livraison


Mestheed/
Cinimique (Alriodiques) de la livraisón

This item in filmed at the riduction retio checked bolow/ Ce dooument est fitint av toux de riduction indignt cielessous.


The eeopy firmed here hee been reproduced thanke to the genereaisy of;

## Archlues of Omeario <br> Teremb

The imegee appearing hare are sthe bece qualloy poselble comeldeoing tho condition and bogltilliy of the original copy and in kecping with the miming centract specificationa.

Originel coplee in printed paper covers are flumed boginning. with the frome cover end ending on the leat page with a pirined or Illueureted impreesion, or the beek cover when eppropelata. All ether original coples are filmed beglinitiot on the first pege with a pelnted or Mlustrated imprib. sion, and ending on the leat poge with a polnted of Iliuatratad impresaion.

The leat racorded frame on each microfiche shall contain the symbel $\rightarrow$ Imeaning "CON. TINUED"I, or the aymbal $\nabla$ (meaning "END"). whichower applice.

Mapa. plares. charis, ate., may be fillmed ar differemt reduction ratieg. Thiee too large to be endraly included in ane axpogure are filimod beginning in the upper left heind corner, left to right and top to bottom. as many trames. ${ }^{\text {th }}$ required. The following diagrame illustraf the method:

L'exemplever mond fur roppodule grice it it stintreatet do:

## Arehtrus of Onvielte

 TeremeLes impacee anventes omt cet reprodultees avee io plue frend eevn, cempse temu to to eendicion ce do lo nestents do lrexermplaive mind. or en cenfermited avect lee ecindidionis du cemerrer do trimage.

敢
Leo exempleives erigineux dovt to eoivertive on papier cier imparimito sont wirite en oemmenpent per lo promiter plat es en cerminame sede par io dernibu pege aul cemporte uno emarcinte drompresion ou dillugtrution, selt per lo escoind
 orfingus sent filmis en sommengent por ito promitive pene aul earmporte uno cmprelate dimpercesion ou dTlusutration ot in tevminemt per to demideo pace qui aemporte ure telle cmproince.

Un dee symbelee qulvante apparditere sur io dernitre imege de etreque mierofiche. selton to cas: le symbole $\Rightarrow$ ilgniff "A SUIVAE". Io symbeio $\nabla$ signific "FiN".

Lee cartea, plameheq. rableaux, ove., pouvemt atre filimie at des tive de reduction diffirents. Lorsque lo decumemt eeze trop grend pour tere roprodult in un seul clichd, II cat flume \& pardir do rangle supdriour gauche. do gavehe à draize. er de haur en bees, an- pronant to nombre. dimages ndeceseaire. Lee diegrammee sulvanta milistrens is methode.


## Prioo

# HOW TO MAKE HOME HEALTHY. 

 mancrater , - 。
# AIR, LIGHT, F00D, DRINK, 

WITR THE TEET OP

## PROFESSOR HAHNEMANN, THE GRDAT GERMAE OENMTET,

TODETECT ADULTERATED LIQUOKS.

BY H. M.

TORONTO:
THOMPSON \& Co., PRINTERS, 77 KING STREET RAST.


## VENTLLATION.

## CHAPTER 1.

In these days overy cohool boy knows something about VentimaTION. He knowa, for instance, that people muat have a large and constant supply of freah air, if thoy would preeerve health and life; -he know that the breath of man is the most deadly poinonthat "collected in a jar it will kill mioe, and aocumulated in a room, it will kill men !". And if he have the minfortune to gather knowledge, not from a tree in a garden, but from the deak of a clone sohool room, ho has a preotical exprinience of the prasuit of knowledge under dificulties, and noon about the Black Hole of Ouloutta, that mind aut body are both muffering for want of frah air. If our cohool boy is a fisherman and oatohes "shiners" to bait for basa, he has probably often seen his bait turn on their backe in his pail of water, and after a little. choking, quietly expire ; and he knows the caume, vis: want of air,一that in the water is exhausted, and he has not pnt fresh water in to mupply its place. .

Were a modern ball-room or dwelling air-tight, the inhabitants would soon share the fate of the "shiners;" but lookily for them, neithcr carpenter nor mason work han reached that point of perfection, so they are odly alightly suffocated and poisoned, and soon oome to life in the freeh air. Doubtlem many will ecolaim against this. The ontranoed Ariguetus will repudiate with soorn the ides that when Angelina reposed on his arm in a polla and whispered that she loved him everlastingly, it whe only poinoned air rendered anonorous by thie action of a largn tongue, teoth, palate and lipa. "What folly!" the old fogies will easy, "to inginuate that breath is hurtful-just as if nature did not know whea whe made man a wocial animal, whether breathing each other's breaths, would
ppove injuriuna." Nevertholem both old and young will, immediavely after expresting oontempi for ventilation, complain of the clocinew of the room, or stcmmer, or railmay oar, and ruwh to the door for rolief.
But notwithatanding the ignorance and unbelief of a great portion of the world, woieutifo men are atill buaily engaged in doviaing waya and meana to proteot man by meana of physioal and mechamical ventiation, fiom being poisoned by his follow man. We have now all sorts of ingenious contrivanoes under the eecond ayatem, 一fanneri, forcing pampa, aucking pumpe, werowa and other contrivanoen, too namerous to mention. In 1668, H. Schmits pablished the cobeme of a great fanner, whioh, desoonding through the oeiling, moved to and fro, pondulam wiso, within a mighty alit. The movemeat of the fanner was coteblished by meane of oleckwork, more aimplo than' compeot; ; it pocupiod a complete ohamber over head, and was eot in noing motion by a heavy woight. The weight ran olowly down, pulling its rope till it reached the parlour floor. As for the sorews they are admirable on account of the ntarling revalte cometimes producod. Not mindy years ago a couple of fine corpws wero adapted to a public building, one to acrew the air in and the other to sorew it out, - liat honor of horrors, both serewn blew down with a gust of contempt apon the siry projector. Of the fancers it is not worth while apeaking; they answer admirably for cooling the air in India, where a merrant can be kept to move one in each mom; and Mr. Basax's monater fannera, moved by ateam, cool the air for the British House of Comaions at an expense of over half a million duliare. But as for vontilation-that is circulatiug fiech air-ihoy ore perfectily uscoles. So far; then, as mechanical vontilotion adapted to buildinga is conoerned, it may be proviousced a - fnilure.

Bat Yhyoical Ventilation-that whioh imintee the proomen of antare, aud whowe ohiof agent is heat; has at length atabliabed itvelf an a groat siocem. Io nature it in mid-the Suxn in the lordhigh voctilitor. He rarefies the air in one pleoe by hie hent, elmewhere permits cold and lets the air te dente ; the thin or warmed
immedithe closethe door
reat pordovining chanical bave now m, —hanrivancen, ohed the - oeiling, be move rlk, more er head, ight ran cor. As g reaults - sorew 1 and the low down fannera cooling in enoh came, cool over half iug fich 4 vontilie. suoced a

## roones of

 tubliabed the lond in heat, a warmedair riseen and the dense air rushee to supply its place, no we have endlewe winde and ourrents, Nature's roatilatiog works. Of course, a cominon fireplece with a quarter of a cord of wbod; or an huadrod weight of coal, is a good imitation of the Swn's ayotem-the fire mikes an acoosding curront, and the oold air rushen from the doors ( ${ }^{2}$ viadowe to the ohimney, as from surrounding conatrice to the aing deworts, as the dranghte about the loga, neoke, and baoke tureve to the mont soeptical. While one aide in being toonted, the Whers aide in beling frosen, so that a man has to revolve as on a apit, the order to lot each side have its proper quautity of heat aud oold. The old selfiore have a superatition that eo soon as they build a new bowee and mave into it they are sure to die. This has a good deal the appearanoe of being the rule. But the reason in, not that a supernal power enviea their now abode, but that thoy themsetree are the anthore of their own misfortudes. For inatavoe, an old couple have been in the habit all their lives of living in a $\log$ houne, with walle windowe and doorn rot over tight and a dutch fire placo, which when form blat would almost carry, one of the youngstors out at the ohimioy top. In other wordn-they live in the midat of a most aplendid ryatem of ventilation, and as a consequenoe enjoy the most robust health. From this they move to in new house with no Áre place whatever and no open flues. Here they sit themselves down by cooking or parlor stoves, and half stapified by the foul and orer heated air, dreatn of long years of happiness. Soon, however, the blood becomen lees and lems pure and disease sets in to obtain an own viotory!

How difforently all this might be managed; bow easily suok a minfortane might be remedied. With open flues or fire places in ceoli room, and a ventilating stove in the hall cinneoted by a pipe with the air without, not ouly would there be no draught, but every room-in the house would be kept at tho same temperature by a constant stream of warmed, not heated air, whioh would be chauged and replaoed by fresh air overy four or five minaien daring the day. "Yee, you". a ventrable old lady will may, "I suppose I might have "all this at the expence of a hole or fue as you oull it in overy
"room, but you doa't oatoh me apoiling the appmanace of my "rooms for the sate of rentiletion !"' It in in viin to tall mesh peos ple that a boaco with open Anee in orary room ona be built at the mame axpesce as a houee with no tiue at all-the ral objeotion in the hole in the woall-howeror neealy it may bo diegried by ores mentel regituters or fane. The beat of the joke is that the partiee whoobjjeot to ituee or Are placee, will atiok the walle fall vindow. They will have comething pico to look at no mattor here althy and unhoalthy the air food whioh they ave inhaling to olemem the blood !

Tbanks to modera arohitcote, if wo gn to ohnroh we one dime through the most delightful nermons. If we go wo balle or concerte or public meotigg, we can pant ator fromh air, and come home with head-aches; inflamations, and incipient conaumptiona.Loog may they believe that lange are, wind inseruments of brees; and lot us hope that when they do get a voatilating it they will prefer otraago maohines, pumpingo torowing, atenming apparatuen, to the aimple pure air of hoaven, whioh requiree but a pipe and a ventilating atovo to cot it foouting day and night through all our drolling.
The colebrated Homioler, who died the other day, considerably over ninety yeart of age, attributed the good health he enjojed to hiis love of fresh aif. He telle we that in one of his travels on ship-board, a milor was redioed by fover to the lant gmp, and at his carneat requect was taken on dock to die. Bat atrange to my he no eooner felt the cool air than he began to revive; and he *eventualiy perfeotly recovared.

Those then who exclade the fresh air from their lunga, take the frot important mop towarde raining their conetitutiona. The more they ait in oloee rooome over that wholeonle dentroyer the bas-wove, the more tooder they become and the more they arave olonike, conta, wrappors, comfortion, India rabbers, and all the other blewinge of this liff. "Look I" they exclaim, "at the progreme of Man.Who over miva Lion in cork eoles, or with a sore throut? Oin the Tiger, mount his great cont when he goes out to a nocial party?
-
Dowe an thagle coar with at umbrollo over hie hend to keop off the cua or mia ? " Man alone, comprobonda thece luxuries; and it in whea bo io beas healchy that he lovee them beot.
Dew aluling by move heat in an unvontilated room is nothing to in a cloce bedroom. Whoovor truvole a good did it ofton a room with a ohimacy ladeed, but olomed inith a fro that there is no pomibility of the foal air mioping during There in aot oven a anove pipe bole into the ohimney, hadiord, with a preieworthy care for the heolth of his hee sot mopped either with tin, oloth, or wood. There is a then the door so that you may ahut in all the foul air, and keep Hita. If you happen to be a man of note, you are probebly ahown to the beat room that containe is miffoctiag manhine colled a ourthined bed. So it is not enough to have dilated foul air, it mant be condenoed as olose ae poasible round jour porton. This may be oulled the Poleon Vapour Bech, and in enjoged in the greateot por. frotion in a fenthar bod. The fenthon proveat the trampiration through the akin, and moit eficotually manother the fiemb. But thon lying on feathers is a aiga of gentlo brooding. An anoient writar telle nu how a king's wifo found out whother hor lady greent wea a rial born prinoeim. She plaoed throe poes in the young ledy'i bed, and over theoe frtion feather beda. In the morning the young ledy complained that ahe had been provented aloeping by the lumpe under ber sheota. So you mio blood will tall. Neat to the olome atove room, the unventilated bod room and fenther bed are the mont idgeoions contrivanoee for the destruotion of human life, and to complote the buainem many people cover their hende with night oapt, or atiok them nodar the bed olothen till they are obliged to pat out their nomes to proveat sotual mafiocontion!
If I were to treet in mientific terme apon the propertion of nir, I might bo es unfortanate an the joung Oembridge athdent who was aliring his wiedom af a dinsur prity. Ho wat moot oloquent upon hoek and cold, madiacion, rarefiotion, polar and equatorial courrentes, doo; whea ho had brought his discourno to an end, ho tarned round upon a gravo proficieor of his college, mening, "And what, nir, do "

## 8

you believe to be the cause of wind?" The learned man replied, "Pea-soup, pea-soup!" So I shall avaikses much as possible, soientifio or ancommon terms, and content myself with desoribing to you in a plain way, some of the commonest properties of air.
$\dot{\lambda} \dot{r}$ is composed of two simple elemente, and one compoun ment in $\begin{gathered}\text { very small proportions. About } 80 \text { parts in an } 100\end{gathered}$ air,' is composed of a kind of air or gas called nitrogen, a siepth ment and apparently of no ase except to dilate the oxy name of the other simple element, a gas or air composing al parts in an 100 of the atmosphere. The compound element a gas oalled carbonio acid, and forms about one part in 2000 of pe air. It is compounded of oxygen and carbon, a simple element or substanoe which composes the greater part of coal and gives to it its chief characteristics.

The air cells of the lungs are filled apon the principle that gravitation causes air to rush into any civity. These are situated on either side of the chest, and communicate with the air through the windpipe and nose, or moath. Three evident effects are produced upon the blood in the lungs by the action of air. Its color is changod from a parple to a bright red; its tempertare is raised, and it is diminished in quantity. Doubtless other effects are produced, but about these there is no dispute. The degree of effeict produced, dopends apon the quaptity and quality of air to the aotion of which the blood has been anbjected in the langs.

The composition of the air has been already stated; but after it leaves the longs it is very different ; instead of 20 parts in an 100 it contains but 16 of oxygen, and contains nearly 4 parts of carbonio acid. It is very full of moisture as may be seen by breathing upon glacs. Its proportion of nitrogen has not ohanged in an appreciable degroe. If a person apply his month to the mouth of a bellglass bottle or deosnter, the bottom of which is wanting or hat a bole broken' in it; and then push the bottle a short distance into $\%$ peil of water, he can draw alt the air in the bottle into his lagge, from which he oun breathe the air baok into the bottle. This must

- be so held in the water that it shall follow up into the bottle as the
an replied, mible, sciscribiog to air.
 100 100 aimh xu ent 00 of p element or gives to it
that graviituated on hrough the produced $r$ is chang, and it is duced, but daced, doof which nti after it a an 100 it f carbonio hing upon in appreciof a bellgor hace a noe into a his lange, This must tutio as the
air is drawn out, and whon the bottle is agnin filled with air, it maut be held quite ateendy, with the mouth yet applied to it and the yot in the water. In the meantime let a match be lightod; an it is burning well, remove the moath and drop the bottle "ineh into the wator, and thrust the matoh into the meath oulo, whon, if the experiment have been well managed, the inatantly gefinat. Showing that the air is so chaoged in that a matoor will not burn in it. If any one required proof of the uniealthinem of air aftar it has been once let him inhale the air fiom another persons nowe or mouth, from the cool freeh air of morniug into a crowded unventilNund hitway oar whioh has travelled all night.

Then, as the air coming from the lange is not suitable to bo reocived again, and as a large quantity is used in a very little timo, it follows that all rooms should be perfectly ventilated, by hafing commanication with the Grand reservoir-the atmosphere murrouindipg the earth. This should evidently be more oarefully attended to during the night than during the day, as then the opening and shatting of doors, and the fires in cold weather, will tend to parify and change the air in a room. ${ }^{\circ}$ Experiment and accident have proved that carbonic acid breathed out from the lungs is so very poisonous that 10 per coat. will destroy the life of animale, and many human beings have lost their lives by going into wells, tombs and other places where it existod. The burning of most articles produces a great deal of it, coal a vast quantity when burning, and a pan of coals placed in a chamber has produced so much as to destroy life. If a grate do not draw, the gas is likely to passinto the room without any smoke, a great causo of headaohes, \&ic. Doctor T. S. Lrambert above quoted, says: "In regard to pare alr, the old adage seems true, ' nothing cost, nothing worth.' If air could be monopolized and sold by the gallon, its value would woon be apprecisted. He continues-n A heallthy state of the body generally, with sective exeroise of all parts of the body, but particulirity the nimecter of inapiration and expiration, and ventilated apartmerts, are the ohiof things which conduce to the perfect action of the sir and blood apon cench other in the luags.? And as it has been acon that one of
the ohiof, if sot the ohiof daty of the luage, in to produce heent, is follown that if a person would be warm he must preeorve his gone. ral health, take ezeroine, and breathe pure air 1 Hence it in twith inforrod, that a pornon will aloep warmor the coldent night ins with his apartment ventilated, whioh oannot be done parf oopt there be communication with out doorn, Fepeoially d. night will a perion be kept warmor and be ia leen dangor cold, if a aloeping apartment be ventilated, not in such that a draught of air ahall come upon the porron, but at time perfootly."

Thus wo soe that pare air noting on the blood produoes and foul air disense and death. But our object is not to cessay on air, but on the means of bringing it into our dwellinge and Railmay carr.
Wo have said that mechanical ventilation as applied to houses, is a failure. Not so meohanical reatilation as applied to Railway Cars, as those of our readers who have travellod in Rutran'igven--tilatod cars en the Grand Tinune, can teatify. There we soe that by means of a ventilating cap on the top of the oar, a continuoum stream of air, purified in summer by passing over a large ahallow tank of water, is furnished to the inmates of the oar. The save quantity of air is also supplied in wintor, but warmed by means of a cimple but meet efficient ventilating stove. No mattor how much dust there is outside, not a partide comes into the oar, beosuse it is deposited in the water tank naderneath. And no mattor how mooh filthy tobecoo is spit or blown out of the mouths of the pereongern, or how dimesed their lunge or throats may be, the atrong downward eurreatio of air carries off the perfume without compelling their fallow phemengers to amillow it. Indeed, wo perfoct is the working of Rurian's nymem in summer that the panengert enjoy the bepofit of atembont, with the rapidity of milway travelling. His motto is "pure sir mand plenty of it."
As regands Rumparis modo of ventilating housen, we have not apece to deceribe it, mat we may say that he pats iunas into the. building: That day and night, in commer and winter, thare is a

000 heat, is e his gonen - it in foive in ares ant ${ }^{2}$ ollings and o houses, is to Railway TAn'ivenwe seo that continuous rge shallow Tio same y means of how much conase it is how muoh pamongern, downward their fallow working of the benefit lis motao is as into the , there is a
clowm of fremh air, pouring through every room in the howes. Of cierse it in warmed in wintor by paming through a veotilating a ventilator an Mr. Rottan dolighte to oall it. Thin is Iof rentilation whioh we denominate phyoical, becauito it antion of nature. As the heat of the demort drawe the surrounding countries, to the ventilating atove attrecte Wh cir from ontaide the house or the railway onr, and thin expels the cold sir and takes its plaoe.
ruieing any partioular syatem of ventilation may offend whter or hot-air architeot, we will leave this particular our subjeot at present, and devote a few pages to considonuset of ill health than the want of freah air.

## CHAPTER II.

Travel where we will, whether on railways or steamers, onter. What society we may, we find nine-tonths of our fellow mortals suffering from ill-health. Why is this? Becanse from the oradle to the grave we set the lawe of health at definnce !

No sooner is the blessod baby born than the watohful nurse orsmss down ita throat a dose of physio; and fastena its first dress with innunierable pini. What the calomel and honey, or castor oily is unable to effeet inside, a sly priok effects outcide, and the troublem of the little "pale froe"" begin. Ten to one that the doctior is sent for and other dosea are rapidly administered, some preparations of lundanum probably, when the little sufferer is put into a cradle and by sotive rooking sent to sleep by producing giddinem, giddinems being a distarbance of the blood's usual way of ciroulation. Perihaps when the drem is changed, the entablishmept of the raw will be diccovered. But the nume has learried one thing in the meen time, virs : that proparations of hadenum save a world of trouble, add that giddinem if it does not prodyoo healthy sleop, at all ovento, produoes quiet Thie nast torture the poor child indergoes is to be a wakened out of ite mound eloep to have some food. Nature of bourse doen not lmow bow often the infant ought to be fody (attho? she would foed

It avery four hours,) eo she is to be taught a lemon. After the food, the ohild is to be put to sleep again, either by the roaking chair, the eradle, or some of Mra. Winelow's soothing syrup.

Well you have the baby at advantage $-\infty 0$ pitch into it: ean. Vary its pleasures by alternately suckling and $\mathrm{p}_{4}$ attompt ao regularity in nurning, keep ite stommoh in formont, and you lny the foundation of a dyrpeptioedonethry a miserible life.

In weaning a child, most people are guided by their their convenience, they will not allow natare to have a $h$ businems at all, but will wean either befure the first toeth after they havearrived at the biting point. Then instead $\alpha$ \& gradually, they wean all at once, by means of bitter alocs or wine other diug. Were the ladies weaned of their tea by being suiddenly , tranaferred to gall, how would they like it? or from hooped petticonts by being rolled tike Regulus in a oask stuok fall of spikes; yet the mode would be about as reasonable in one case as in the other. Mont houses are so constructed that no fit room is retained for and nurnery. Indoed, in most.cases, a common unventilated bedaroom is the only convenience for the nume and thriee or four or more children. In this room there is perhape one window, which is kept oarefully closed and atuffed all winter, wo as to keep out draughtal If there be a chimpey, it is of course clowed with a bourd, and the door is shat to keep in the noise. Here the poor delionte thioge grow up like stalke of celery, whito and tender, and by the mame procem:-the exclusion of light and air. Then, as if the mother really wiched to decrease the popindation, they are tent out to malk in thia uppor dremes and bare loge. How, nould mammes and papa like to be treated in the same way? Would they not find it rether cool comfort to imitate their firet parents in this olimats $?$. and yet their children are of the mame floch and blood as thome. colved This exposure of children is one reseon of the great inareve of consumption, and should be discountenapeed by every thinking parent.
Childrea should aleep, ant, and exercise regularly; let them not.
the of ple
ma
one
ohs
den
int
to
for
W!
of
$\mathbf{H e}_{0}$
dax
don
linh
He
tho
be tempted to do ove or the other out of the regalar courne. On metoices whatever let them "piece" the day through. The sequires three or four hours to digent a meal, expeote a wootine of tuiks, and betwoen eaoh task lookn for a little Yet how little are these requirements heoded. etueats of allaring shape and color, with other paloaro invariably added to the diet of onr ohildren, and en between meale. In this way the stomach, if not nod by colored candies, is kept in a constant atate of ohild becomea pale and siokly, and the triumph over pletel Let a man place himsolf in the position of a awake some fine morning with a dose of oastor oil hie throat ; let him then be washed and awathed in a shall be stuck full of pins, one or two of whigh are thrust half an inoch or so into his fiesh, let him then swallow a done of laudanum, and on the top of that be rocked to the verge of apoplexy in a oradle, After he has been asleep for a conple of hours from sheer oxhaustion, let him be awakened by a picklod herring 4- being thrust into his month, and see how he would like it !

But supposing, oontrary to probability, that the obild becomee a man, lot ues see what he does to renovate his constitution. Ten to one he has been manufactured on the foroing aystem, into a meochant or a professional man, and has taken ap his abode in mome deneely populated quarter; in order to be near his office. Natpre intended him to be broad chested and straight (backed, but thanlat to early training and confinement he is nerrow ohested and atoops furward; the ahoulder blades projecting like the winge of a bird. What his wife and daughter have accomplishod through the agency of ways, he has accomplished through study ind want of exeroise: He don't see why his own lange and the langs of his wife and daughter ahould have room to play. He never played himself and don't believe in it. True his wife and daughter admired the Englinh oricketors last.fill; and wished perhaps with Deedemona, "thait Heaven had made them such a man!" as'one of these. Doubtlese they thought them a superior race, nevor considering that fresh air and
ozeroice might have couferred the mame boon opon the hamenad and the brother. It is unfortionate that the lange have any work but they have, and rather important work too, it boing mel to put the breath of life into the blood, whioh they are t properily whoe oramped for spece. By this compromion mon as woll an women aro renderod nerrous and-ine oxertion and fall an easy proy to the Dootor and the is

The ladies, however, do not allow us to suppose lost flesh. There is a fiction of attire which would epeoulative oritic the belief that American women havil ahould be in their waists, to bulge up some inches hr and some inches lower behind. But on applioation doctor or milliner it will be found a grouindens theoch prompters behind the soenee, do not hesitate to mesort that tivi" the mane all the way down. We have hinted at our gentleminns oocupation, lot ut now what is his recreation I Does he go to the symnation, or the crioket field? Nay, does he even play ton pins or buece ball? No, none of these things move him, but about text $o^{\prime}$ clock at night he goes out with his wifo and daughter to apend the coening. Thinhy oled and packed in a closecoarriage they arrive at their hosta, jump out on the cold pavemont, in thin boots and choes and run ahivering into the house. Inateed of keeping from the fire, a all ohillol people should, they rash.ap to a red hot tove in a drening room, firm thence thoy deacond to drink a oup or two of nome hot liquid alled teen or coffice. Prom thenco they onter the canoing room, where, from want of ventiletion, the upper manh of the window has beno lef down, or the lower semh raised-" it is so very hoti" Here a nice country nove will it once detect the nasty foul air, the it is mized with ean-do-cologie. Now the gentlemin omddea some lady, and the ladien are cuddled by some gentlemoin; and they opin aroond the room like toetotame. Promently they take ase ioc-then an apacia, thon another dinoof, thoti a walk on the verundah "it in co very hot"-then a glom of wine, then anothier iso-then macoaroonit, then suppor. Seqdivioh, tarkey, patties otimijingae, blinamange, bonbonj, ohamengue, oherryj ohampagica beso bell? No, nono of theso thioge move him, but about toi mai I one havi

In the house alone that ladies strive to thwart their faces pale and have them
tuibed o'er with the pale hue of thoughi,"
that they pull down the blindp. They must, for exercise ! senve the mark !-pat a veil butween and the aun, and oarry on bigh a great ithield namgod kies them into color as he does the penohos. No, thay will repain green fruit to the ond of the chapter, and do all in thoir power eradicate what little of the rose their folly has left. Thoy prefer being like the lilies, "which toil not, neither do they spin, yet I aay unto you that Solomon in all his glory was not arrayed like one of these !" Do these fair, friil oreatures over read I If thoy doy have they not seen that in times of pestilenge, denth, who loves the dark, strikes three victims on the shady side of a street, for one on: the sunny side? Did they ever wee a house shielded from light and heat by trees, that was a healthy abode for man or beast? Nover. Fet they will persist in keeping their blinds down for fear of fad curtainefer corpets, whilst they themselves moalder into early graven.
We don't know whioh is the greater benefictor, T. C. Karnar, Who gives us pare water in abandance ont of all sorte of impossible plages, or Rutran, who gives us air. One thing is seftain, that if these two reformers, the one with his fresh air and the other with his fresh watar, are allowed to go on much longer, they will compel us to be more healshy in spite of ourselves. Will not some other sanitery reformer arise and give us "light in our dwellinge." There

## 16

is quite as much difforeace in the bealthfulaens of artibid triter natoral light, as there is between the two luminaries icy brillianoy. The light whioh comes down from the aky; no air out of our monthe, bat it oomes oharged with : mabtlo principlee which have a purifying, vivifyiog powerful ally of heakh, and we make war againat in tu| light contains no suoh blessings. When the gad half a doson jets into your unventilatod room, and givee light; when your candlee bocome shortor and are burnt out,-Do you know what happena f. oeases to exist. Your oxmphene has left the lamip vanished out of being. Nor has it been convertod inh is a visible solion; and candles are no more cont when they are burning, than breath is convertod in you are talking. The breath having produced apoeole, the atmosphere; gas, oamphene, coal oil, and candios, thavie produoed light, do the same. If you save fifty wax lighte shrink to their sockete during the past week iñ an anventilated bell room, yet, though invisible, they had not left you; for their elements were it the room and you were breathing them! Their light had been a sign that they were combining ohepically with the air ; in en oombioing they were changed, but they became a poison! Every artifoial light is, of necessity, a little workshop for the conversion of gas, oil, apirit of oandle into respirable poison. You will therefore see that the more we have of ouch a process, the more need we have of ventilation. While upon the subject of light, we may mention that the best plan for weakening the eyes and nocesactating the ase of glameen, is to read or work by a fluotuating lighto. By fipponating light is meant a oandle that requires snufing, or a lamp that requires turning np . The joke of them oonsists in this : they begin with giving you sufficieat light, but as the wiok grows, the radiance leesens, and your eye gradually accommodates itself to the decrease; suddenly they are snoffed, and your eye leaps baok to its original adjustment, then begins another slide and another leap back, and in course of time, lamenting the prematare approach of old age, you invest in a pair of spectacles."

We have said above, that T. C. Keefer, C. F.e gives us good

## 17

We point to him apeoially, beorace ho is the engineer of the Hamiltion water worke, and wo aro gled to bout, for fatdre eapital of Cenande, that be is to be ampiplojed blemiog apon it. Tho Kenyere noom to bo. an W0 have Samuki Kineran, the real enginoor, vold and the largeas Capal, the 8t. Lavtrypator of Anilways, and now Amintent of the Board of Works. . Then
"Pripoophy of Railuays" not all the looator of the aite of the Viocomia Grveegor of the Graind Trunk line $\rightarrow$ vary Neimataly seloctod. Then we have another In member of the Australian Parliamentadian talent is honored even on the other ride
hte shrink to all room, jet, ents were had been a ; in so com. Every artifisraion of gan, therefore see d we have of mention that g the wise of y tquanating a lamp that 8 : they begin the radiance the decrease; its original sap back, and fold age, you
gives us good
duols, eutributed to Noah's great grundson,-at Oarthe Frrecenas, Mozioana, -at what Rome' did, and sokapy man, in an muripa and half oivilised condition, uadien, art of health and comfort was vory intimately oonepy of frewh water. Look at the carage whoturefini you will ind bim a cold water man, pint savage washes himself no comptiatly, the other axtreme. Oine writh thiak of the Platomic sohool and trmed the True, the temperanee men hare come to th internal arrangementa, bat who ever heard aide application ! Aocording to their idens, should draw" 00 many foot of water, and $w$ registared on the atern. By the way, is is not never thought of electing Manomer to the ofin aroh, whon his fundamental principlen ware "clent" poracce." Well, there is this, at least, to be exid in favour of temperanee societioe-they do not paes the bottle: "They don't ank the" friends to taste another bottle of that old port, made of dootored elderberry, or try a little more of that angar of lead and goomeberry. with a body of rhybarb, under the name of ohampagne. The ordinary manufacture of choice wine for the people requiree the following ingrediemta : for the original flaid, cider, or compmon cape, miain, grape, paranip, or elder wine; a wine made of rhubard for champagne, to these mas be addod water. A sh veak hering been ohosen, atreagth, oolor, and favor may io Tod on Une is made of these materials: for color, burnt
 For antty flavor, bitter almonde; for frimer mpruco; for fulnom or caoothnem, honey; for port Ving whet hoture of the reads of raisins ; for bouquet, orris root or ghengie; for roughnees or drypem, alum, oak sumdust, rhatany or kino.

Of food wiae, health requirea none, though it will tolerate a little. If re take a giacs or two of the pure thing, we may expect a little indicuation. Bat if the wine is bad, no one can tell to that disor-

rogionored, and made him read them! Fathern killep broken heartod, ohildron brought up in ain and make up a vory ploneant aight for a man, who, is e be oulled aport to give an sicoount the ories of "juotion 1-Juation, the lowest pit of pordition,
meroy 1
Bat it in not our wator quection. Oat before our readergit longth of days to tute she inwardly. If people the the mont harmicue intority itw in in astaral. Ine There in no doubt that ite enting proportiea. But fow peopliy not like to be mado obeerfal hirmiventy, and wiwertur matnien ohoarfulnees produces houlth. Wo kag rere mian old ledien,

 the efficote of liquor. But wo don't reoter than li doee mueh harm asoopt making thom nerroue and tallitaiva. Willbould not howaver, be druak hot, byt wrim. Hectly tron hiad weckem thiestomach and consequently injure alm and another y) fratage över wine, beor, do., it adid invalthon produces jollity
we refer the render, if he be marrie
ing bee, whore hadies love to cong? hage toe garden, where the plant in But what of milk ? Is it deaorving bleal Cortainly. It is the food aswal finfatia appotite is all for milk. Not wisting ande up of ohally the brains of shepp, oxon and cownh soots, mitroh, trecole, whiting mogar of lead, arrotto, wise, ta. ; (woe"Mr. Rugg, of London, and Irank Iealie of Now York) but geod wholeoome milt fivem the conntry, or from your own cows in town.

## OHAPTERIII.

 TOND. "Man lufant'a appedto in all for milk"; to that laventably aimple diet. adrerticemente and youmost conspionoun of These are the proinpel mature to be

Profomor Croft Imid to exiat olielly sunda which axeotly bemen, and oricine. on: fit and atarehy cuets. If a pernon tale $40 / 1$ to be wated; if he take to be wasted; if ho take
d, and part of to the body Solse away en fat Tho.vorroot utet io a houlthy man is eight parte fillnfgh y under nush hart d bot how. ad welken Tanother
in 26. Such diet in like putting locohes on a child, matin and bloodlem. $\mathbf{A}$ ohild, up to its sevonth jour, al
nothing beyond bread, milk, water,
fat, and fresh meat. for its dinper:
with a litile well cooked
the ripest fruit.
food for breakfict. have beer, for not liquors, bat thert trash made here. are food for neithor ohild to be "good" mately art necures and vitiated oravin young women eat chal do so, bat becanse it is a ohildren like plaip sugar ex treas ridge, it does not hurt the trim. Look at tho gentlemen ladies of color down south I Have they not got teeth of the sounde and whitest. Mr. Riouardson tolls up of tribes among the Arabs
 of keeping abont them a etiok of suger la whinh thoy bring out from time to time for a box for a pinch. Plain sugar, stomach, in modcration; but igeg chalk, or verdigris, or any othee and hearing.
As for children of larger
fashion, all we can sajy it-the
think of it-first comes a rioh
then fieh made indigestible by, with more onyenne; next meat with all next wine, next beer, next pie cruint Aig wavin $\quad$ iproductions of a second course ; next oelery, choep and be, next wine, oranges and almonds, and lastly olives and more wine-and they

In othar words, they have digged with their toeth, Their graves. The hotel that gives the ry) rifohot 000 king , is sure to carry trye overtakes thowe acylums , and a rich tarern great a ourionity Hon or beef, with ozcopt amongat
lehy food benepment is by all ed, the more it tio has watched heels over head nature demavids erkod in all its parts, 1, vigorous and well C, pin a ohild down in und oloth, sird now ond lawh of quiet politeness. - Let nature have h oremsen be high spirited, handsomb and ( ) \% how very improper! mit one sex to each pye and girls together The Finglish women gnificent forms and ralking, running, skipping Why Leope them in doors, making but nature is allowed to have her


## 24

How, dear reador, do sen exppoee the wife of og
honomable oitisens, in Taronto, obteing
charmiag complezion ? Do Nut
perpetrailly, or by mellis
folded before hor, suppowe whe hat
wormed birds, on?
has been brought plenty of ezerci plonty of earri, with her husb She is, withoul her example is beat ramalta.
"But you are c poeed to have diacts. your dinner. 4 wa WAIT ON APPTMITH. Toronto, Fobrairy, 1860.
P. 8.-Those who never bo troubled by. who follow no raler
fow hinter for thoir ge,
When you entor froe as long as your there is life there in and endeavoers to 1 ll and aheerful conve the siok chamber; the siok man'e prendi cilent thunder. If the to the weather be not too cold, you may cheat the dootor out of al.als,

$\square$
4
-
*

