have been most deplorable. Well, just that may occur now any day, and the danger increases as warm weather advances. Depend upon it, unless ample provision is quickly made for an adequate water supply, that ovil day will overtake us as a thief in the night, and we may be literally overwhelmed with the calamity a la Chicago Forewarned we should be forearmed.

But great as the danger to our material prosperity is from inadequate supply, the dauger from a sanitary standpoint, owing to the impurity of the water, is im. measureably greater, especially so at this season of the year, and increasingly so as hot weather ad-

That two hundred thousand people should be daily aupplied with water so largely impregnated with the foulest description of bay water that in appearance it resembles water that has been agitated over white clay or surface drift, is a most serious if not an appalling consideration. Our present water supply is full of the sources of disease; warmed, or allowed to stand for a short time it emits a fetid odor quite sickening to any human or animal acnaibilities, except, possibly, those of the hog, and unless pure water be speedily obtained we cannot long escape terrible consequences in an outbreak of epidemics of typhos, typhoid fever and other zymotic diseases. When these shall come-as come ther will, unless the causes of them are removed-let no one impiously charge the postilential scourge to the "inscrutable ways of a divine Providence," but to the improvidence, incompetency and bungling stupidity of the management of the Toronto Water-works. The only part God will take in this matter will be bye and bye to sit in judgment upon the actions of those who have turned the engine of postilence and death upon

J. J. WESLET SIMPION.

BY J. O. RARKETT.

A thinking lyre
That rapts him with a holy fire;
A soul whose pulses toned to love
Are heard and felt in roalms above;
A kingly will, that armed with truth,
Reflecks old ago with reverent youth;
A bundle of constructing springs
To mould in beauty grosser things,
Evolved from alavery's bonds the
Death's victor angelized and free;
All nature blent "in exquisite plan—
What else is man."

## OLD AGE.

Dr. George M. Humphry, of England, has published

and of billitte activity. In a stude cities as an experience by a design of Asture which he was unarios ample the increasing lightness and brittleness of bone, to resist, even at the peril of his life. Similar instances with ago, proceeding peri passe with a narrowing range, are known of railroad engineers and atcamboat pilots of muscular action, until a time comes when the sleeping when on duty, with the knowledge that the machine stops, rather than is stopped by accident or lives of many others, as well as their own, depended disease, and old age terminates in natural or physics—to their washfulness.

'he requisites for longerity are found to be an in-herent quality of endurance, popularly knows as a "geod constitution," derived, as the statistics show, rather from maternal than paternal sources, a steady, parasistent, nutritive—ros, and a good proportion of balance between the several organs. More than fifty per cent. of the centenarians are women, and a greater

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and take a hint from the next point wherein our old friends excel, viz, early rising. Sleep should come and take a hint from the next point wherein our old friends excel, viz, early rising. Sleep should come early in the night, certainly before midnight, and healthy people should be able to wake at six and rise at once. With regard to general circumstances, it seems that these who are accustemed to live in some fort rather that affluence attain old egg. All teratheriners and abatainers are well to the front, although a new two instances are well to the front, although an on two instances are well to the second the second to the second to the second the second the second the second the second the second to the second term of the second terms of in one or two instances some "have drunk as much as they could get," but from the very fact of their reach-

they could get," but from the very fact of their reaching one hundred years of age we are not disposed to believe that they ever could get much.

With regard to disposition, it is interesting to note how often the words "cheerful," "chatty," "amiable," "placid," "good tempered," "energetic" occur. Thus we find one dear old soul dancing on her Wilst birthday, and another, Peggy Walsh, reputed to be 124, retained perfect hearing and such good sight as to be able to thread a needle without glasses. Surely the length of their days was not full of sorrow and labor. Vigorous mental labor appears, other things being equal, to predispose to length of days, a capacity for prolonged mental atrain arguing great brain power. for prolonged mental atrain arguing great brain power. Happily old age is not often accompanied with de-mentia, although frequently some evidence of childishnoss addores.

It is important to note that there is only one instar of death of a centensuian from cancer. It seems that the liability diminishes from about 45 to 55 onwards, and that after 70 there is but little to fear in this direction. With reference to bladder trouble, arising from enlarged postate, only seven por cent. were found afflicted, and it was found that after 65 was passed the liability becomes constantly less.

The remarkable preservation of the teeth is an ob-The remarkable preservation of the teeth is an object of common remark when akeletons of our fore-fathers are brought to light, and the conclusion is hastily arrived at, that we of the present generation have certainly degenerated in this respect. There may be some truth in this, but it must be remembered that

be some truth in this, but it must be remembered that such skeletons are those of people often cut off in their prime by battle or disease, and that nowadays a larger proportion of people attain to old age than formerly, thus allowing time for dental decay and loss to occur. But after all as the author says, "length of life is to be really estimated not by the number of years so much as by good work done; not by the amount of time spent in the tame, fruitless manner indicated by the pithy lines of Cowper,

' For fourscore years this life Cleora led, At morn she rose, at night she went to bed,

but by persevering efforts to promote the welfare and happiness of our follow men."—Popular Science News.

## SLEEP.

The condition in which we pass at least one-third of our lives is certainly one of the highest importance and our lives is certainly one of the highest importance and interest, and it is, even with our present knowledge, not devoid of a certain amount of injectery. We know that in alsep the amount of blood circulating in the brain is considerably diminished, and it is, undoubtedly, the time when the waste of the nervous system is repaired, and a store of vital force—whatever that may be- laid up for the labors of the ensuing day.

The profound influence which the state of slumber

the results of his inquiry into the causes affecting largerity, based upon information obtained concerning fine hundred persons over eighty years of age, in this protound influence which the state of alumber optibly.

In his general remarks the author points out that the current idea of development is associated with the periods of adolescence and maturity. It should not end there, but continue in a deficite and orderly manner, though with leasening activity, to the termination of life. This is spoken of as "descending" developed the organism relative proportions of the several structures, ander the influence of a well refluence of the several structures, ander the refluence of a well refluence of the refluence of a well refluence of the refluence of the refluence of a well refluence of the re

The proper amount of alosp required by anyons is an individual peculiarity, and no general rule can be given. The new-b-en infant sleeps nearly all the time, but the periods of wakefulness soon grow longer, through childhood and youth, until the full-grown adult devotes a minimum time to the recuperation of his bodily energies, while in old age the need of more time for aleep is again felt. The feelings are the best mind in the respect and them are her analysis. per cent of the centenarians are women, and a greater number of the female sex attain an advanced age, not withstanding the dangers inherent to the child bearing period of life. The more pronounced healthiness of the female infant is not without its share in the production of longerity.

1): Humphry says that the greater proportion of cases are reported to be of long lived families, to have see moderate or small enters, especially in the matter of meet. They have generally been accustomed, too, to much out-door exercise. Let those who are pent up in an office for nine or ten hours aday, and there only creep home to rest a brain wearied with a surfect of badly oxygenated blood, remember this,

bors of people must, necessarily, reverse the usual prac-tice and devote the daylight hours to slumber. Neither is there any particular hygicale virtue in early rising. The familiar old couplet is only true in a very general sonso, and there are a great many cases where a man would be healthier, wealthier, and wiser if he delayed the time of his rising to an hour consistent with his own feelings and inclinations.

own feelings and inclinations.

Droams, undoubtedly, occur during disturbed alsop, or during the interval between alcoping and waking, and—although it is not easy to prove this—it is more probable that a sound sleep is a dreamless one. Unusual mental anxiety or exitement, or a disturbed state of the bedily organs, such as an overloaded stomach, may cause a certain activity of the mental processes, which will become manifest in dreams. The sudden awakening of a sleeper will often cause a dream in the brief interval before full consciousness is attained. Dreams more often relate to recent and important oc-Dreams more often relate to recent and important oc-currences in our daily life; but, on the contrary, the most trivial incident, forgotten for many years, may be, as it were, atored up somewhere in the brain, to be afterward revived in a dream, with all the accompany-

afterward revived in a dream, with all the accompanying circumstances.

The literature and curiosities of aloop and dreams are, however, very extensive, and it would be impossible to refer to even a fractional part of the observed phenomen. A simple falling asleep, if it were not so common, would be a most wonderful and even alarming occurrence. Although the vital processes of a aleoper go on as usual, yet the mental life, the self-consciousness is suspended, and the aleoper is practically dead to this world, or else wandering in another and stranger world—that of dreamland. A dreamer may be said to be in two places at once, and if, from any cause, he be in two places at once, and if, from any cause, he should not awake, but continue to dream on indefinitely, it would be hard to say why he would not be living just as true and real a life as the one which he knew in his waking hours. Hamlet's chief argument against suicide was that "In that sleep of death who knows what dreams may come?" and Bryant, in his poem, Thanatopsis, speaks of welcoming the approach of death,

"Like one that wraps the drapery of his couch About him, and lies down to pleasant dreams."

It is a noble, and perhaps the most logical conception we can form of the great and inevit de change that must come to us all, to consider it as out the awakening from the dream of our present life into a higher state of existence, with a comprehension of the laws governing the universe and our individual being, which us to look back upon the experiences of our present life as we now raguely remember the visions of a disturbed slumber, and with as little regret 'at they have forever passed away.—Popular Science L. sus.

## HEALTH AND DISEASE.

The natural condition of living beings is one of health. The natural condition of living beings is one of health. A normal life history would be one of gradual development from birth to maturity, the continuance of maturity or adult life, with the perfect and uninterrupted actions of all the bodily functions, for a certain length of time, and at the last a gradual failing of strength until the vital spark goes out, like the flame of a lamp exhausted of oil, quietly, painlessly and almost impercentible.

of life, every separate organ soems to be on the point of broaking down either by the degeneration of its organic structure or by the abnormal performance of its functions. This we call disease, and those who have not experienced it in a greater or less degree are exceed-

not experienced it in a greater or less degree are exceedingly few in number.

Man, above all other animals living, is out of harmony with his environments. The course of his development from the lower forms of life, seems to have taken place with so great rapidity that the bodily organs have not had time to adjust themselved to the changed conditions of his existence.

of the recuperation of ditions of his existence.

The feelings are the best of his existence of his mental faculties has led him to adopt habits of life which his anatomical atructure and physulogical functions are not adapted to sustain. Every gynecosist and loss. Nothing, or regularly deprive consist of the body, and the structure of the coronator have more time for a expending one's capital libough the final result of position while walking or standing. If it were not call position and members to perform functions to bedly organs and members to perform functions to bedly organs and members to perform functions to bet large number of his anatomical atructure and physulogical logist and obstotrician can testify that the abdominal logist and obstotrician can testify that the abdominal logist and obstotrician can testify that the abdominal torset and logist and obstotrician can testify that the abdominal tory against are not set and logist and obstotrician can testify that the abdominal logist and obstotrician can testify that the abdominal tory against are not set and position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structure of the oronal position of the body, and the structur