OVER THE EARTH

Why RAGE and JEALOUSY Make You UGLY

NEW DISCOMERIES

By William Lee Howard, M. D.

VERY recent discoveries of the activities and uses of certain little glands in the body show how the body and mind are injuriously affected when the functions of the glands are disturbed. These glands and secreting bodies are the thyrold, the advenals, the pancreas, the pituitary body in the brain and one or two other secreting bodies.

That distressing disease known as goltre is due to the drying up or disturbance of the thyroid gland, situated around Adam's apple.

Any prolonged interference with the thyrold gland through emotions causes a very troublesome nervous disorder and may end in idlocy. Affection of the pituitary body may cause paralysis of the intestines or kidney disease. Violent anger can cause such a disturbance. In fact, a vast array of diseases is now known to follow disturbance or affections of these secreting glands.

The great importance of these discoveries lies in the fact that it is powerful emotions, anger, uncontrolled outbursts of temper and intense jesiousy which directly affect these internal bodies and glands. Many times we can trace serious mental troubles and neryous disturbances to these causes.

The Little Glands That Emotions Poison, Spoiling Your Face, Form and Skin

"She became insanely jealous," you often hear said of a girl who had to be taken to an institution. True, but not in the way we have formerly thought. That is, it was not the insanity due to intense jealousy and the emotions following, but the effect of this temper and emotion upon the secreting gland which caused it to cease its daily work and so interfere with the health

What's the difference? many will ask.

Just this: It shows us how rigidly we must control our strong emotions and temper so as not to affect these secreting glands, for if we do this then there can be no mental disturbance.

There is another very important fact to remember about controlling the emotions and temper, and this is that if they are not controlled they will in time show upon the face, in the form of a poor complexion, and

give you a voice that is harsh, rasping and repelling.

More and more we are commencing to realize the
powerful influence psychical conditions exert upon our
lives. These psychic influences, emotions, thoughts, impulses, controlled and uncontrolled outbursts of temper, directly exert their powers for good or evil upon the health and appearance of the individual.

When a person "gets mad," shouts, lets the tongue

spit and fire with accusations and suspicions, wants to strike and sometimes kill, we have a temporary insanity. The emotions have run away with judgment, sense and decency. The face becomes livid, the lips blue, the heart stops its regularity, and the hands and fingers become cold. Keep up this state of affairs by repeated attacks of loss of self-control, and the mind and body are certain to be affected.

Why? Because this anger brings on a tension of all the muscles-internal and external. All the blood vessels are contracted. They are put in the same dangerous state they would be in if you tied them by a thread or string. This is the reason you turn pale, have





tion, and this is always dangerous. This is the cause of sudden deaths in those old enough to have hardened arteries, but not old enough to know how to control their temper.

Anger, frenzy, send through the shocked nervous system impulses to the glands I have mentioned. These either pour out too much secreting substances, thus temporarily poisoning the body and brain, or prevent any secretion.

The frequent loss of self-control, causing paleness and blue lips, will end in a muddy complexion and mottled skin. The finger nails will lose their pink of good health; the neck and bust their plumpness.

The outburst of temper so powerful that the individual loses all sense of what he is doing the youth who strikes to kill, the girl who bites and scratches, sads in crying and hysteris, simply open the thousands. of tiny tubes in the glands and out pour valuable substances meant to provide for continuous good nervous and mental health.

These fits of ungovernable temper cause a sudden change in the character of the blood, and this is a dangerous state if frequently repeated. The bite of a human being under normal conditions is not poisonous -that is, the saliva is harmless. But a bite from the anger-mad man is very poisonous. The saliva has suddenly been made poisonous.

These being scientific facts, cannot you see that the brain, the nervous system, will become poisoned in time if you do not early in life learn to control temper and emotions? Because they do not learn to do this is the reason so many merge from fli-tempered children through savage youth to murderous states of frenzy, and finally insanity.

It is not, essentially, a moral question, the learning to control temper and anger, but purely a physical and medical one. Morality and good health are so closely

blue lips, cold extremities. You interfere with circula- bound together that I do not believe they can exist separately. It is not sufficient to tell a girl that if she does not want a bad complexion and flabby bosom als must learn to control herself in every way—smotlons, temper, impulses, jealous thoughts.

The good physician who is trying to help her will further state that outbursts of rage are repulsive; cause loss of good friends, prevent making valuables acquaintances. Flashes of undue temper, spiteful and ugly words are invariably signs of ill breeding.

If a girl grows up with complete lack of self-control. she is physically unfit to battle with life, morally unstable, socially an outcast.

Now you see how health and morals complement each

Certainly a strong temper, a self-respect which will not allow of insult and injustice, is one of the noble qualities of man and woman. The dignified control of a temper which resents any interference with personal rights is a factor which makes for bodily health,

strength and mental power. This self-control keeps the blood and juices of the body properly balanced, gives just the right tension and stimulation. This condition makes you feel so self-contented when you have been under perfect selfcontrol, yet have relieved your mind by strong words carefully considered. By a dignified self-defense, where you protect your rights yet suppress your anger, you strengthen both brain and tissues of the body.

Without a strong temper under perfect control you lose your will pewer. Without will power we can accomplish but little in a world where man progresses through will force. With a good, strong will power we can accomplish wonders, conquer ill health, obtain mental force, be happy and make others happy.

And do you know the great, big exercise which dedelops WILL POWER?

CONTROL OF YOUR TEMPER.

How Being DOMESTICATED Made MAN a DIFFERENT Animal

HERE is a frequent mistake made by many people when they compare the conditions of civilization with the conditions of savage life. As a matter of fact it is easier to understand modern conditions of human life by comparing man to the domesticated animals. The changes that have come about as a result of civilization are very largely the outcome of environment, and such environment has been of the same general sort as has caused changes in the animals which have been domesticated. Civilized man has diverged almost as far from savage man as the collie and the dachshund have diverged from its wolf-like ancestor,

The principal factor in civilized life is identical with that of the domesticated animal, namely, that a regular supply of food is assured. It is this which has made so great a difference in the tamed flesh-eating animals, such as cat and dog, whose food in wild life is secured irregularly and with difficulty, and which has made less difference in the grass-eating animals, such as horse and cow, whose food supply has changed only a little. But in all cases there are marked bone differences, and even without considering specially adapted forms it is immediately seen that in wild animals the bones are smaller but more solid, in domesticated animals the bones are larger but of not so dense a structure. In the same way, the bones of the white race are considerably less dense that those of savage races, and even when a comparison is made of the negro, the bone is far denser than is the case in the

Digestive conditions have changed greatly, and it is largely in this regard that man parallels the domestication of the animal. The stomach has become far smaller in civilized than in savage man, just as the stomach of the dog is smaller than that of the wolf. The intestines in man are shortening up all the time, and to such an extent, for example, that the vermiform appendix is no longer of service, but has become a blind pouch. Civilized man cannot endure physical fatigue in the same manner as the savage, nor can the dog run for ten or twelve hours tirelessly as can the wolf, but in both cases the senses have become more acute and a high degree of response is observed. This, as is evident, entails marked changes both of the muscular and nervous systems. Even the breathing apparatus in man has changed and health is kept up with less exidation of the blood, and consequently with a diminished lung power, so that, in proportion to size, the lung capacity of the civilized man is far less than the savage.

Domestication, therefore, is just as truly a condition of man at the present time as it is of the pets with which he surrounds himself. The only difference is that he domesticates himself. Unlike Kipling's "Cat That Walked Alone," man can no longer go out into the wild wet woods walking by his wild lone. He has become a member of a community and is forced to abide by its rules as a tamed creature. Man is a domesticated

Your APE ANCESTORS Make You HIDE Your HEAD in BED

By William Lee Howard, M. D. HILDREN and often adults will, upon getting into bed, duck their, heads under the coverings and remain quiet for some time.

This is not a form of play, nor a sign of fear. It is instinctive in man—a trait left us from the time our ancestors lived in their tree bads. The ourang-outang of Borneo and the gorilla of Africa to-day do the same thing when they curl up to sleep. They have a pile upon which they place their heads, regardless of the other parts of their hodies. Sometimes they reach up and pull down the thick-leaved bro It is not done for warmth, but probably with the ostrich-like idea that the head once covered so they cannot see, they believe their enemies are also kept from seeing the sleeping forms. Birds, also, sleep with their heads bidden entirely out of sight under their teathers.

Whatever is the reason, the point is that we still retain in our early mental life this ancestral trait.

But this is by no means all we can witness of this tree-living and tree-climbing life which still persists in spite of the tremendous evolutionary strides of mankind. Even children who are naturally timid delight in tree climbing. Even as babies we enjoy "climbing the stairs" at a time when walking is impossible, reaching out in a half-standing position to grasp something just above us. Boys and even girls enjoy their platforms built high up in trees, and what boy has not begged to be allowed to sleep at night on the tree houses or platforms? With yells waters.

of delight such boys will perilously climb from limb to limb, tree to tree.

It is born in him and should not be discour aged. This climbing ambition is a safety valve to his bubbling impulses. His hairy ancestors lived and worked among the trees. To climb to heights and look down is instinctive in man and will probably last for many, many future

All imitations of the young follow one linethe playful reproduction of a former existence. Among the lesser civilized peoples it is a part of their life. They have entrances to by ladders. These are drawn up at night as a measure of safety.

It is all so true—these old, old instinctsthat we commonly describe mimicry in the children as "aping." It is usual to speak of monkeys as mimicking man, but if we carefully study the play and instincts of the boy we shall discover that he really "apes" the monkey

The simple verb, to spe, hints at our onetime existence among the tree tops. Another little fact: Man is the only animal which has to be taught to swim. He is the only animal naturally timid in tree climbing. Even by the most determined efforts some men and women cannot evercome this inborn fear. It is well known that all ages fear water and never swim. They will go miles around a stream, even a small creek, rather than cross it. While a cat hates water, it will swim to save its life. A big ape will drown with fright

You Can GROW GLASS In Your FACE

LITTLE boy, whom I will call Arthur Lovejoy, complained some time ago of "glass growing in his face." He had consulted a few family physicians, all of whom were very much puzzled by his trouble, but unable to achieve enything in the way of a successful remedy. Finally, after he had been treated by numerous excellent doctors, he was recommended to consult me by Dr. Hugh Randolph Potter. Arthur was then ten years old.

Upon examining the little fellow it was discovered that a most curious condition existed. Spread broad-winged across his cheeks and nose was a butterfly-shaped area peppered with what superficially appeared to be little sebaceous glands or ordinary pimples and blackheads. In fact, many alert but quick-glancing medical men had taken this skin trouble of Arthur's to be only a resistant, stubborn variety of acne—the chronic tion that appears on the faces of many young persons.

Luckily, a painstaking search of the face this time proved that each so-called acne pustule, instead of containing matter and an inflammatory mixture of germs and pus, held within its cavity a very minute, almost invisible, crystal that closely resembled a diamond.

As a matter of fast, Arthur Lovelov's face contained nothing as valuable as diamonds, yet the clear-cut crystals that were spread-eagled across his nose and cheeks, in separated pimples, were equally as strange and puzzling to the medical world as they would have been had they actually turned out to be of untold value.

The bits of crystallizable and sparkling things found concealed in the pretty, patient's skin were examined by the X-rays and by chemical analysis. They proved to be fragments of glass. That is to say, they contained sodium silicate in crystal form, which, as is well known, is the chemical substance of glass. Fortunately, his troubles were cured.

When it is remembered that many plants such as diatoms, sugar cane, and certain weeds, as well as many of the lower types of animal life, such as sponges, make during their normal growth, crystals of silica or glass, it should not, after all, be so startling to find that the human skin under certain pathological conditions might has restored to it the power of producing bits of glass, just as the ancestral forms did. It is, after all, only a state of affairs called by high-browed biologists "atavism." Atavism means merely a return to the primeval ancestral condition. Thus, when a

HATCHING Chickens from SHELLED EGGS

Princeton University and make it develop artificially.

For this purpose he uses a sterilized solution of water containing 7 per cent of common salt, to which a little calcium chloride and potassium chloride are added. With this he fills a glass dish. Then he takes an egg. wipes it off with a sterllized rag saturated with pure alcohol (so as to make it germfree), and, with the aid of a forceps (likewise sterilized), opens the egg in such a way that the cut edge shall be smooth.

Then the contents of the egg are allowed to slide gently into the dish, whereupon it. quickly rights itself, so that the embryo of the future chick is on top. The egg thus treated is taken from an ordinary incubator after undergoing about twenty-six hours of

When this process is carefully performed it is accomplished without injury to the embry or the surrounding egg material. But it is important that the solution shall be of the same temperature as the egg. Even if there be a slight difference in temperature, it is fatal to the success of the experiment.

The dish containing the fluid and the egg is thereupon covered with a glass lid, which rests upon a cotton collar—the latter being held in place by a string. The cotton allows free access of air, while shutting out germs.

Thus the experimenter has in his glass dish an embryo chicken which is alive, supplied how to take a hen's egg out of the shell o with the food it wants by the egg material, protected against germs, kept at exactly the normal temperature and provided with the oxygen it requires.

The dish is put into the incubator, and while the embryo continues to develop, it can be watched through the cover of the dish. In a word, the chicken can be seen starting to grow. The first movements of its heart are observable, as well as many other interesting phenomena.

Quite possibly by and by Dr. Paton may be able to raise a chick by this method to a point where it will be ready to step up on the edge of the dish, walk out and pick up its own food. But he has not got that far yet.

This discovery is likely to be of great value in increasing the supply of chickens for commercial purposes and reducing the cost of living. At present hens are very unreliable at the work of hatching out chickens from their eggs, and even when incubators are used the number of eggs lost is very large.

If there were some method by which we could be sure of having a chicken from every fertilized egg the present supply of chickens would be doubled. The country consumes nearly twenty million chickens a day, and the cost of them ranges from twenty-five to sixty cents apiece. A gain of about \$1,000,000 a day in food supplies will be effected when the new remedy is perfected.

and inability to hold itself up in the quietest of Why a WOMAN Can OUTTALK a MAN



and does so because she uses up less force by a large percentage than the man does. A German professor has proved by actual and very delicate measurements that the baritone singer uses far more energy than the tenor and that the bass singer uses more force than either. The range of voices differs greatly, so the percentage varies to the same extent, but as a general result it was proved that the tenor uses only from oneseventh to one-sixteenth of the lung power of the baritone or bass. The difference between the force used by the contralto and the soprano is quite as marked, and the contralto who sings in very deep tones uses at least ten times the force of the trilling soprano.

The explanation is so simple that it is sur-

prising that the investigation was not made

long ago. It has long been known that the tenor or soprano brings the vocal cords close together and keeps the edges only vibrating by the emission of air. The bass or contralto

leaves the space between the cords wider open, and has to vibrate very much more of the membranes so a considerably larger amount of air is required and much more force is

You may have frequently noticed that those persons with high, squeaky voices seem to be very loquacious—they never stop talking; and the reason is now plain— Copyright, 1918, by the Star Company. Great Britain Rights Reserved.

they can talk with far less effort than those who take a deeper tone and have to use more air to utter their words.

Here lies the real explanation of the ease with which a woman can out-talk a man. She has the advantage of using from oneseventh to one-sixteenth less lung power, and even though her lungs may be smaller in volume, the difference is never so great as that between the amount of air required. What chance, then, would mere man have in debate with woman when at last she receives the suffrage? The clocks in legislative halls

would never keep time at all. Woman possesses the further advantage of being able to make a more penetrating sound with a smaller use of power than the man. The smaller calibre of the woman's throat, combined with the higher rate of vibration of the vocal chords, yields a voice that is twice as easily audible as the man's when produced by the same amount of effort. Most people who have listened to the voices of men and women over the telephone will agree with this.

would have to be put back so far that they

civilized man partakes of the brutal instincts or habits of savages and gorillas, he is said to be atavistic. Hence the new disease which has appeared un-

der the sun is really atavistic in the sense of sponges and diatoms being predecessors of the shrew, the monkey and man. The new maledy has been aptly named the Disease of the Philosopher's Stone," which is a sly dig by the practical, experimental scientific physician at the cloistered philosopher who tried to dream out truth instead of seeking it with his muscles, eyes and ears. The case is a very rare and curious one

BEET JUICE for LONG LIFE

NE of the most interesting discoveries of recent research by the Japs is the value of the red garden beet. The Japanese love the beet, and declare it contains that which will produce long life in the

human race.

They tell us the beet is full of fron and other substances which will act on the human system when administered as a tonic.

The beets are cut up and boiled for several they are removed from the water.

becomes a syrup. This is taken in doses ranging from a small wine glass to one-half a pint, two or three times a day, usually before the person eats a good mest.

This is pronounced by some of the best physicians as one of the most effectual tonics.

that can be taken.

Large doses such as a half pint at a time is declared by the Japanese to be a preventative and a cure for gravel of the kidneys and bladder. It should be taken until relief is certain, which is said to come in a few