THE COMMON ILLS OF LIFE.*

BY GRACE PECKHAM MURRAY, M. D.-No. 8.-HEART TROUBLES.

Several months before a human being is ushered into the world the heart begins to beat, and it keeps up its motion until life leaves the body. life leaves the body. Without its unceasing beat the end would come, and come quickly. The action cannot be suspended more than three or four minutes before life becomes extinct. Usually when death impends the breath stops and life will have the appearance of having departed; but still the machinery of the heart moves feebly, and it is rarely that the heart ceases its work first. The danger of chloroform as an amesthetic is greater than that of other for the reason that it affects the heart first and before rescue can come the patient is beyond the reach of help, while with ether the lungs are affected first, and if the patient stops breathing, the heart will continue to pulsate for some time, thus making it feasible for the doctor to administer restoratives. The great inherent strength of the heart is wonderful. It may show that it is troubled-and few spare the heart in their management of their lives-, but it keeps on beating, hour after hour, day after day, year in and year out, until death comes; though crippled by disease, poisoned by ten, coffee or tobacco, overtaxed by worry and anxiety, strained by excessive work, it keeps sentinel at its post, working, pumping-sending the life-blood on its course whether its owner is awake or asleep. The heart represents all that is vital in life, whether it is love, religion or physical welfare.

THE HEART'S BEAT.

It is the disturbance of the heart's beat that makes one aware of the heart and leads to the belief that it is diseased. The severe forms of heart trouble are not so manifest and may exist for years without one being aware of it. The beat of the heart may be quickened so that from the calm succession of the pulsa-tions—which should be about seventy a minute in a man and five or ten beats faster in a woman-it goes up to ninety, a hundred or even higher. This is what is known as palpitation or the heart; the machinery gives the sensation of having gone all wrong, and one who has palpitation thinks he is afflicted with the most serious impairment of the heart. The trouble in ninety-nine cases out of a hundred is due to indigestion. stomach and the heart are very close neighbors. The heart floating in its watery bag, in which it can be kept lubricated and can move easily, lies just above the stomach. The latter in its empty state does not give rise to any trouble, but when it is distended it encroaches upon the heart and presses upon it in such a way as to interfere seriously with its action, causing it to beat rapidly and giving a sense of suffocation. The distension of the stomach is caused more often by the accumulation of gases from undigested food than from overeating. Palpitation of the heart is occasioned also by over-exertion, such as climbing stairs, running or doing any unusual and taxing exercise. The heart can become accustomed to a great deal in this way, much more than one would think. The ordinary person who attempts to climb a mountain in a very short time finds himself breathless and his heart beating like a trip-hammer from the unusual exertion: but let him do the same thing day after day as the Swiss peasants are accustomed to and he would find that he could do it as well as they without increasing the heart's action by a beat. The rarefaction of the air will make the heart beat; on Pike's Peak if a person stirs, the heart will throb and hammer and go at a rate of over a hundred beats a minute. Such, however, is the adaptability of every part of the human machinery to its surroundings that in a very short time the heart accustoms itself to the high altitudes and beats normally no matter if the elevation is high.

In bringing about this adaptability it is not well to carry exercise too far, as many athletes do. By over-training they weaken the heart muscle, and many an imprudent giant finds to his cost that lack of judgment in regard to the care of the heart

est tendency to heart palpitation avoid so constantly all state or making any effort in climbing that by lack of use they impression the heart muscle, the same as they would any other. The elem tors, which are in such general use nowadays, render climbic stairs something of a lost art. In some impairments of 12 heart in which its action is enfeebled and in consequence which the blood is not propelled over the body, the doctor recommend stairs and hill climbing to strengthen the hear and thus send the blood to the remote blood vessels, with the result that the general health is very much improved.

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pigmy. On the other hand, many persons who have the sugh

THE IRREGULAR AND INTERMITTENT PULSE.

With the palpitating, rapidly beating heart one is sure the it means an incurable heart trouble; with the irregular at intermitting pulse one knows that he or she feels wretched though the cause of it is not so apparent. When the her misses a beat every fourth or fifth pulsation, sometimes ever every second one, he feels as if the machinery were all goingt pieces and that he is seriously ill, though he does not alway attribute it to the heart. The cause of the trouble is due in me cases to indigestion, but very often to the use of tea, coffee tobacco. Tea takes it out of the nerves, but coffee is the me poisonous to the heart; and many a person haunted with for that incurable heart disease was his lot has been entirely n lieved and cured by giving up the use of coffee. Coffee much more poisonous to some than to others. Its action is me felt at first, but it accumulates in the system and after a wha poisons the heart, making its action irregular and intermitter Tobacco may accelerate the heart, but after long and person tant use it slows it. I have known it to reduce the heart's ba to less than fifty. One case was the pulse of a man who was a inveterate smoker; the other was a young girl who worked in tobacco factory. The heart may be slowed by rheumatic an gouty poison in the blood and also by the accumulation of bi in the system. These heart irregularities are not dangerous they have been known to last for years in people who have been otherwise well and who have led very active lives. Neverthe less the presence of these troubles tells that the heart is no strong, and one should be careful in regard to over-exertion any direction which will throw stress upon it.

HEART-BREAK AND HEART STRAIN.

There is no irregularity of the heart's beat which may not h occasioned by the emotions. Nothing will cause it to be faster than fear, surprise, joy or anger; sorrow, anxiety, can and trouble often tax the heart, making it intermit, weakening and slowing the pulse. Every emotion strikes to the heart. To broken heart is frequently spoken of, but this must not be taken literally. The muscle of the heart does not break, and hear rupture is very rare and generally due to accident. A curioz structure is the heart, composed of muscle fibres which a twisted about it in every possible way. It is said that even the muscle tissue has the inherent power of muscular contraction independent of the nerves which it contains. The heart has The heart ha inside this muscular structure four separate chambers or compartments. Emotion or any other influence which disturbs the normal working of the heart causes these chambers to contra irregularly and thus interfere with its action. The broken hear while literally untrue, is by no means a myth; the heart he failed to perform its work in many instances in which the vis tims have been the subject of some great mental agitation Livingston is quoted as having observed in Africa the death of number of slaves through the grief of being torn from the homes. He said he asked them where they felt badly, so though entirely ignorant of anatomy, they placed their hand over the region of the heart and said they felt very bad there. It is supposed that the emotion causes an irregularity the circulation which makes the arteries contract. The blood thus forced back into the heart and the chambers of the organ

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