Strange lales blus but self-blus laces.

Rage. Cirief, Astonishment Depicted During Exertion. Expressions That Betray Dangerous Strain.

Sculptured by R. Jait MacKenzia.

Conversal by W. R. Saundars

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died the other day. A miserable little pneumonia germ killed him.

He was only 28 years old, but already he had built up a fortune of that of extreme rage. \$3,000,000 in the lumber business. The nose and upper Everything that makes life worth while was within his reach.

The struggle with the pneumonia Shevlin, the giant in strength, the man of perfect physique, was dead. Why did succumb so quickly and so easily?

ball," said Assistant Surgeon-General
W. C. Rucker, of the United States

Obviously, no such emotions and

Public Health Service. "His heart may tertained by a youth who, for instance,

weakened. Too much is trying to cover 100 yards in 10 seceises make a great demand upon the heart, and in consequence that vital organ becomes unduly enlarged. Later on, particularly if the athlete drops the world of the violence and severity the world of t sues may undergo degeneration.

Too much athletics has a tendency subjected. to shorten life. Undue strain impairs

IG TOM" SHEVLIN, famous sporting contests subject them.

Yale football coach and one of Take, for example the first gridler. e football coach and one of Take, for example, the face of the mightiest gridiron men young man who at the moment is enever turned out by that university, gaged in sprinting, in throwing the race. It is like the face of an angry wild animal—ferocious, repulsive. The expression is undistinguishable from

The nose and upper lip have a snarting expression. The nostrils are distightly across the clenched teeth. germ was brief. It was soon over, and great skin-muscle of the neck-the muscle of emphasis in violent actionsprings into relief and stands out in cords. The whole expression is that "Very likely it was too much foot- of one in readiness to seize and tear an all," said Assistant Surgeon-General enemy.

have been weakened. Too much is trying to cover 100 yards in 10 sec-athletics is dangerous. Violent exer- onds. But the very fact that the hua sedentary mode of life, its tisof the strain to which the body, and a converging of wrinkles to the root and the lips drawn downward and outincidentally the nervous system, is of the nose, with wrinkles across the ward, the lower part of the face exbridge. The frowning brows are drawn pressing the distress of failing power

sician, Dr. R. Tait McKenzie, who most curious study. In a way, they ing, crying or laughing we close our tired; his temperature may rise sev-finds in the faces of the athletes them- are susceptible of analysis. Thus the eyes, selves the most striking and convinc- look of snarling ferocity indicates, in

In the early part of a long-distance down and the eyes narrowed to mere to breathe,

later years."

nary circumstances denote surprise or if he could do so and yet see the runNow, the most interesting of recent astonishment.

studies on this subject have been made
by a distinguished Philadelphia phyemotions that are not felt, afford a of greatest effort. In shouting, sneezpass away for days. The athlete is

Dr. McKenzie explains this by saying evidence of the severity of the the athlete, violent effort. There is ing that when any violent effort is stiffness of the muscles remain for of the cheat walls white the heart and lungs, thereby driving It often happens that athletes in up the blood pressure to a point that training incur each day more fatigue

preme effort, and the blood pressure rises, just as it does in throwing the hammer or "putting" the shot.

If, on the other hand, the runner instead of trying to cover the 100 yards in 10 or 11 seconds, is satisfied to do it in 20 seconds, there is no nervous tension, no muscular convulsion, little change in the blood pressure and the face remains calm and smiling.

The face of breathlessness is wholly culiar and definitely characteristic. Its expression is one of anxiety, eloquently telling of thirst for air. moothness of the forehead is broken wrinkles, spreading from the inner ends of the updrawn eyebrows-the direction of the eyebrows being just the reverse of that seen in violent effort They are drawn upward and inward by what the French call the "muscle of pain," whose action is observed in grief or in distress of any kind, mental or physical.

The upper eyelids of the runner "out of breath" droop and half cover the eballs, giving a look of lassitude The nostrils are widely dilated and the mouth gapes, with lips retracted in the struggle for air. The raised upper lip adds to the look of sorrow and pain; and the down-drawn mouth corners, the tongue closely pressed against the teeth, the sunken cheeks and the oper mouth all go to accentuate the effect of distress.

The distress is caused by poisoning The efforts of the runner have thrown into the blood from the muscles a quantity of waste that acts as a polson. As the distance race is continued there is re-establishment of equilibrium between the production of waste and its elimination, so that the athlete gets what he calls his "second wind." The look of pain disappears from his face; his lungs regain their power to his muscles act with renewed vigor and elasticity. He can now keep on run-ning until he feels the symptons of

When exhaustion arrives (as it must before the end of a long-distance race), it has its own characteristic evidences in the expression of the face. The eyebrows show a slight frown; the eyelids are heavy, as with sleep; the upper lip is retracted from the teeth, giving a slight look of pain: the mouth s half open; the jaw drops and the lower lip hangs loosely over the parted teeth. The general expression is one of vacancy, the runner being obliged to make much effort to prevent his

the vitality and lowers the power of race, and before the runner has got slits. At the outer angle of each eye and the chin forward in an endeavor to resistance to disease. Along comes his "second wind," he is likely to suf- is a "crow's foot" of wrinkles, made balance the head without muscular efresistance to disease. Along comes his "second wind," he is likely to suf- is a "crow's foot" of wrinkles, made balance the head without muscular efpneumonia, perhaps, and the weakened fer from breathlessness. His face then by an effort of the muscles to close fort. Both pose and facial expression heart is not able to stand up against it. assumes a look that counterfeits pain the eyes.

Excess of physical effort, too, may or deep sorrow. If, at the end of such. It seems quite odd, when one comes to fight off collapse. When this efweaken the arteries, and thus very a contest, he is overcome (as is usually to think of it, that in any kind of vio- fort is continued to the final utmost seriously impair the constitution—pos- the case) by exhaustion, his expression lent effort the eyes are shut or nearly the muscles cease to act: circulation sibly engendering arterio-scierosis in is exactly that which would under ordi- shut. The sprinter would shut his eyes fails; the runner's face turns pale and

> or disturbed by dreams. Soreness and made there is a muscular contraction quite a while, but gradually fade away of the chest walls which compresses as the constitution recovers its tone. It often happens that athletes in

may endanger the delicate blood ves-sels of the eyes. If distended beyond a certain limit they might burst; but the muscles used for closing them con- They lose weight; the skin becomes listless; the muscles lose their clas- may be a matter of weeks,

tract the vessels and force the blood pale and flabby, and the eyes dull and is profoundly affected and recovery long-lived. When a runner is trying to cover 100 listless: the muscles lose their elas- may be a matter of weeks.

When a runner is trying to cover 100 licity, and every effort becomes a buryards in the fewest possible number
of seconds, there is no question of
seconds, there is no question of
breathing. He takes a big breath at
that they have "gone stale." The plain exercises of intense and concentrated
exercises of endurance the waste is
constitution of years and improving
that they have "gone stale." The plain exercises of intense and concentrated
exercises of endurance the waste is
constitution vigor. But, carried too the starting line and holds it. Through- fact is that they are suffering from effort such as sprinting or hammer- produced much less rapidly than in ex- far, they endanger health and may out the "sprint" there is an intense chronic fatigue. The nervous system throwing. In the endurance class are ercises of effort. Breathlessness is one shorten life.

walking, distance-running and rowing. form of fatigue. It represents an acute if exercises of effort are carried too poisoning. In a long-distance race, if far the muscles will refuse to contract, the pace is slow enough, the runner

"parasites on the vitality," which is nervous system is stupefied, and the sapped in the struggle to provide for muscles relax. Indeed, long-continued their nourishment. A man's muscular physical exertion may end in death, system may be developed to such an as happens sometimes with soldiers afextent that he looks as if clad in a ter forced marches, suit of armor too heavy for him to Dr. McKenzie picks out the runner wear. It it notoriously a fact that pro- as illustrating to advantage the varifessional athletes commonly are not ous phenomena that he would discuss.

If muscles are habitually overworked they may atrophy and become weak, the products of tissue waste accumulate; when over-developed they become the heart beats fast and weak; the propagates on the victility

But the same remarks apply to other by-product of muscular work forms of muscular exercise and effort.



Wireless Weather Service

A nual report of the Chief of the reports but also for the purpose of re-weather Bureau for the fiscal ceiving knowledge of the forthcoming regions are also desired. year ended June 30, 1915, to the de- weather conditions that is now dis-strability of establishing wireless seminated from Arlington and other were in operation 214 Weather Bureau sive surveys in small watersheds, and methods of communication in those regions of the country which are subject to floods and destructive storms. One dissemination of warnings of destructive storms. One dissemination of warnings of destructive storms by wireless agencies, the is to cut off communication by telegraph and telephone at the very time tributed in an experimental way in this when it is most needed; and in a few manner from three place in the control of the offices. Of these 197 are classed as during the past year carried out three offices. Of these 197 are classed as during the past year carried out three fully equipped stations. In addition such surveys—one in the City Creek there were more than 4500 co-operative watershed near Salt Lake City; a sections of the country which are subject to floods and destructive storms. One dissemination of warnings of destruct there were more than 4500 co-operative observers whose work, the report says, ond, in the watershed of Cottonwood shows a conscientious desire to rengative the best service possible.

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Shows a conscientious desire to rengative there were more than 4500 co-operative watershed near Salt Lake City; a section of the properties of the possible of when it is most needed; and in a few manner from three place in Illinois and For some years past the Weather Lake, Carbon County, Wyoming, rare cases it has been possible to reach also from one station in North Dakota. Bureau has sought to determine each The report also calls special attentions.

TTENTION is called in the an- only for the purpose of disseminating adequately. Extensions of the service places is gradually becoming less, as in the grain, cotton, sugar and rice mining camps and other enterprises are

formation in regard to the water re- ing the Winter, and information can sources of sections in the West, where he obtained in regard to the conditions the reporting stations now in existence which prevail in them from a few isoare not sufficient to cover the country lated points only. The number of these

garden crops; and for additional in- tudes are frequently uninhabited dur being abandoned. For this reason the

> nary survey was made in November 1913, and a second survey in April, 1914. In 1915 two attempts were made to reach Paradise Creek, and although in plish all that had been hoped, it was determined that the snowfall for the Winter of 1914 to 1915 in the mountains of Eastern Arizona was extraordinarily heavy. The work thus far accomplished, it is said, can only b sidered as preliminary to a more gen-

The weekly forecast which was suspended for a time because of the interruption of foreign meteorological reports due to the European war, was reform. This forecast is now prepared and issued Tuesday forenoon for the week beginning the following Wednesday. It is sent immediately to the press associations, and selected portions are telegraphed to distributing centers, where they are printed in cards and distbuted by mail to rural newspapers and individuals.

Quakes and Solomon's Temple.

Christian Herald. Solomon built the temple about 970 B. C. In less than 100 years Joash found great difficulty in arousing the people to attend to the repairs of the cracking and tumbling walls and the decaying

timbers. The causes of decay were earthquakes, or light shocks, which occur every year, the action of frost in districts and elevations where that the dry rot in the beams which followed the action of the rain or dampness; but, greater than all, the action of roots, I write these lines within sight of the mussive fortifications of the Cruswlers



The long, doubly curved wrinkles was recently photograph of him to be taken in public of the Emperor curing the corrolation of the Crusalers made the Mikado of Japan at lie. While he was returning from period. The carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers of the Mikado of Japan at lie. While he was returning from period. The carriage is not unlike the massive fortifications of the Crusalers carriage on the Mikado of Japan at lie. While he was returning from period. The carriage is not unlike the massive fortifications of the Crusalers carriage on the Japan of Rhodes, and can see the formal occasions. except that the but in the exhausted runner they illustrate an endeavor to raise the droop- at the latter's coronation. In this old the only public photograph made, but carriage for the Emperor were lack.

In seld to massive fortifications of the Crusalers carriage on the Mikado of Japan at lie. While he was returning from period. The carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the massive fortifications of the Crusalers carriage is not unlike the formation carriage is not unlike the finite and the formation carriage is not unlike the finite and the formation carriage is not unlike the finite and the finite carriage is not

THEN Yoshihito was recently photograph of him to be taken in pub- of the Emperor during the

DANCER TRADED FOR WAR PRISONER.

Make much effort to prevent his eyes

IJINSKI is the dancer exchanged been weakened greatly. Diplomatic from closing, as a consequence of infor Dr. Robert Barany, winner effort was used to have him released creasing paralysis of the muscles of the of a Nobel prize. So says the from internment in Austria, Meantime upper lids. report from Vienna. Nijinski is the Dr. Robert Barany, interned in Russia, famous Russian dancer, member of the received the award of the Nobel prize, but could not enjoy its honors among bus friends and countrymen. Then this friends and countrymen. Then Baron Burtan has suggested that if male dancer of the Imperial ballet. Russia would let Dr. Barany come without him the company would have home, Nillnaki would be released, ing excitated with surprise or astonishment, but in the exhausted runner they illustrate an endeavor to raise the droop-ing excitation.

Vijinski