

Woman's Danger Signals

Hot flashes—dizziness, fainting spells, headache, bearing-down feeling and ill of a kindred nature—are nature's danger signals. The female disturbance or irregularity back of these calls for help, should have immediate care and attention. Otherwise the delicate female constitution soon breaks down.

Dr. Pierce's Favorite Prescription

For more than 40 years has been lending its health restoring aid to thousands of women year after year throughout its long life.

This wonderfully successful remedy imparts strength to the entire system—particularly to the organs distinctly feminine. Nerves are refreshed. The "stale", overworked business woman, the run-down house-wife, and the weary care-worn mother of a family—all will gain strength from this famous prescription which 40 years has demonstrated its effectiveness—in liquid or tablet form.

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Dr. Pierce's Pleasant Pellets regulate and invigorate stomach, liver and bowels. Sugar-coated tiny granules—easy to take as Candy.

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SUNRISE, First Patent from Manitoba wheat		
FIVE ROSE	do	do
ROYAL HOUSEHOLD	do	do
HORTON	do	do
HARVEST QUEEN, 2nd Pat. from Man. wheat		
GOLD DUST	do	do
RED ROSE, High Grade Blended Flour		
NEW ERA, Special Pastry Flour		

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WATER PRESSURE

Tremendous Force Exerted at the Bottom of the Sea.

AIR THERE COULD NOT RISE.

It Would Be Compressed to Such a Degree of Density by the Enormous Weight That the Water Would Float Upon It—Limits of Diving Depths.

From ordinary considerations it would seem that there is no limit to the depths to which a diver or a submarine boat might go. Such, however, is not the case. What prevents diving to great depths is the enormous pressure of water. No diver without a suit can go over 120 feet, because the pressure on the body is then about five tons to the square foot on his body. Eardrums would be stove in, and other fearful difficulties would result.

To remedy this the diving suit was invented, but there is a limit also to its depth. At a depth of one mile the pressure due to the water alone is 100 tons to the square foot. Even if a diving suit was devised to withstand this enormous pressure trouble would be found in getting a pipe line that long and withstanding the pressure that would not break of its own weight.

In the case of a submarine boat it is slightly different. Here only the strength of the boat is the necessary thing. But to be strong the walls have to be thickened, and this adds to the weight, consequently adding to the load to be pulled through the water, and so at last the limit of the engine propelling the boat is reached. If a larger engine is procured it itself weighs more, larger quarters are needed for it, etc. So there is a well defined limit to a marine boat's diving.

Let us take the extreme depth of the sea so far found, that of five miles, and find the pressure to the square foot on the bottom. As water is comparatively incompressible, a cubic foot of it weighs practically the same on the surface as at the bottom of the sea. In the case of fresh water this is sixty-two and a half pounds. Salt water weighs slightly more. So all one has to do to find the pressure due to the water at any depth is to multiply the depth in feet by sixty-two and a half, and the answer is apparent at once in pounds.

At a depth of five miles, the number of feet being 26,400, we have that number of cubic feet to multiply by sixty-two and a half. The answer is 1,650,000 pounds, or 825 tons, to the square foot pressure. No known hollow vessel can withstand this.

While on the subject of increasing water pressure a number of interesting observations can be made in connection with air compressibility. Air is very compressible, the volume decreasing as the pressure increases. If a bottle is tightly corked it will contain air at ordinary pressure of fifteen pounds to the square inch, and that is the pressure it exerts. Then tie a weight to the bottle and let it down in the sea by means of a string. On bringing it to the top again it will be found that the stopper has been forced into the bottle by the water pressure. If the bottle is filled with water and stoppered and let down no such thing takes place, showing that water is not compressible to any great extent.

If by any means some air could be placed at the bottom of a sea five miles deep it would not rise to the top, for it would be denser—that is, would weigh more to the cubic foot than water—and the water would have to float on the air; hence no man knows if the bottom of our seas is wet or not.

There is only one thing that would prevent the air from becoming this dense, and that is if it was cold enough it would liquefy. However, it is almost impossible—in fact, impossible—for anything at the bottom of the sea to be colder than 4 degrees C., for if it got colder the water around it would become colder and larger and consequently lighter and rise, and its place would be taken by 4 degree water, which would bring the object to that temperature. So we have no argument against the suggestion, for the temperature at or below which air liquefies is between 100 and 200 degrees below zero C.

Some people seem to think that a stone thrown into the sea can sink only to a certain depth and is there held suspended on account of the pressure of water. A body immersed in fluid is buoyed up only by the weight of the fluid displaced. We have found that water is practically incompressible, so if the stone displaces a cubic foot of water that water weighs the same, or practically so, at the top or at the bottom of the sea. So the stone would be buoyed up only by that constant force and would be carried down by its weight. Thus the difference in the forces would be always downward, and the stone would sink to the bot-

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