

## January 1920

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### Home Spotlight

A MONTHLY MAGAZINE DEVOTED TO THE PREVENTION AND CURE OF IMPERFECT SIGHT WITHOUT GLASSES

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## THE PALMING CURE

One of the most efficacious methods of relieving eyestrain, and hence of improving the sight, is palming. By this is meant the covering of the closed eyes with the palms of the hands in such a way as to exclude all the light, while avoiding pressure upon the eyeballs. In this way most patients are able to secure some degree of relaxation in a few minutes, and when they open their eyes find their vision temporarily improved.

Most patients are helped by the memory of some color, probably black, and as it is impossible to remember an object for more than a few seconds, they usually find it necessary to shift consciously from one mental picture to another, or from one part of such a picture to another. In some cases, however, the shifting may be done unconsciously, and the black object may appear to be remembered all alike continuously.

## THE VARIABILITY OF THE REFRACTION OF THE EYE

[illegible]

When we understand how the shape of the eyeball is controlled by the external muscles, and how it responds instantaneously to their action, it is easy to see that no refractive state, whether it is normal or abnormal, can be permanent. This conclusion is confirmed by the retinoscope, and I had observed the facts long before my experiments upon the eye muscles of animals, reported in 1915! and to be described again in my forthcoming book, had offered a satisfactory explanation for them. During thirty years devoted to the study of refraction, I have found few people who could maintain perfect sight for more than a few minutes at a time, even under the most favorable conditions; and often I have seen the refraction change half a dozen times or more in a second, the variations ranging all the way from twenty dioptres of myopia to normal.

Similarly I have found no eyes with continuous or unchanging errors of refraction, all persons with errors of refraction having, at frequent intervals during the day and night, moments of normal vision, when their myopia, hypermetropia, or astigmatism, wholly disappears. The form of the error also changes, myopia even changing into hypermetropia and one form of astigmatism into another.

Of twenty thousand school children examined in one year more than half had normal eyes, with sight which was perfect at times; but not one of them had perfect sight in each eye at all times of the day. Their sight might be good in the morning and imperfect in the afternoon, or imperfect in the morning and perfect in the afternoon. Many children could read one Snellen test card with perfect sight, while unable to see a different one perfectly. Many could also read some letters of the alphabet perfectly, while unable to distinguish other letters of the same size under similar conditions. The degree of this imperfect sight varied within wide limits, from one-third to one-fourth, or less. Its duration was also variable. Under some conditions it might continue for only a few minutes, or less, under others it might prevent the subject from seeing the blackboard for days, weeks, or even longer. Frequently all the pupils in a classroom were affected to this extent.

Among babies a similar condition was noted. Most investigators have found babies hypermetropic. A few have found them myopic. My own observation indicates that the refraction of infants is continually changing. One child was examined under atropine on four successive days, beginning two hours after birth. A three per cent solution of atropine was instilled into both eyes, the pupil was dilated to the maximum, and other physiological symptoms of the use of atropine were noted. The first examination showed a condition of mixed astigmatism. On the second day there was compound hypermetropic astigmatism, and on the third compound myopic astigmatism. On the fourth one eye was normal and the other showed simple myopia. Similar variations were noted in many other cases.

What is true of children and infants is equally true of adults of all ages. Persons over seventy years of age have suffered losses of vision of variable degree and intensity, and in such cases the retinoscope always indicated an error of refraction. A man eighty years old, with normal eyes and ordinarily normal sight, had periods of imperfect sight which would last from a few minutes to half an hour or longer. Retinoscopy at such times always indicated myopia of four diopters or more.

When the sign depicts an unfamiliar object or a series of characters it is probably a German label. But the preschoolers' German labels can be written pictures, or signs, or letters, or a mixture of these. Children can be asked to copy and can be perfectly taught to write a picture of what is on the sign as high as the sign itself, but they always have trouble in making accurate writing of the handwritten, although the letters may be two inches high. A strange sign, or any sign, has the same effect. I have never seen a sign that a small child, who could look at a sign at the distance without becoming startled, cannot copy. The German copy has been successful in being accurate, but it is not a copy of the German label, but of a German child's drawing, but a German child's drawing is a picture, not a label. It is not as if the German label, which has a picture, is not a picture, or other person, according to Roman Jakobson. Chava explicated the German labeling as writing to the eyes (2). On the contrary, he always found "phonetic" after a long reading of the handwritten German label to which he was labeled German. "Because the German characters were more familiar to him than any others he found them useful to be signs." One, "as he truly observed," "has much to do with the matter" (Children learning to read, write, draw, or use always stop from defective vision, because of the unfamiliarity of the lines or objects with which they are working).

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Under conditions of mental or physical discomfort, such as pain, cough, fever, discomfort from heat or cold, depression, anger, or anxiety; images of refraction are always produced in the normal eye, or increased in the eye in which they already exist.

The variability of the refraction of the eye is responsible for many otherwise unaccountable accidents. When people are struck down in the street by automobiles or trolley cars, it is often due to the fact that they were suffering from temporary loss of sight. Collisions on railroads or at sea, disasters in military operations, aviation accidents, etc., often occur because some responsible person suffered temporary loss of sight.

### HOW LONG WILL IT TAKE?

This question is asked so constantly by persons who wish to be cured of imperfect sight that it seems worth while to devote a little space to its consideration. It is impossible, of course, to answer the question definitely. Can is a question of the mind, and people's minds are different. While patients who have worn glasses are usually harder to cure than those who have not, elderly persons who have worn them for the better part of a lifetime are sometimes cured as quickly as children under twelve who have never worn them. These cases are very rare, but they do occur. Some patients can look at the letters on the test card, or in a paragraph of fine print, and imagine them at once to be perfectly black, with the result that they immediately become able to read them. Some patients are able to judge almost perfectly from the start, and nearly all can do it well enough to improve their sight, some never become able to do it until their sight has been improved by other means.

These peculiarities of the mind cannot be known in advance, and therefore it is seldom possible, in any given case, to make predictions as to the length of time that will be required for a cure. This much can be stated, however: that marked improvement is always obtained in a few weeks, and that all patients obtain some benefit at the first visit. If there are any exceptions to this rule, they are so rare that I do not remember them.

As more facts are accumulated, and better ways of presenting things learned, it becomes possible to cure people more quickly. I can cure people more quickly today than I did a year ago, and I expect to cure them next year more quickly than I do today. In the last three months, seven or eight patients have been cured in one visit, with a little additional help over the telephone.

*When patients can give considerable time to the treatment they naturally get on faster than those who cannot or will not do this. When they follow instructions and do not waste time in discussion, or in carrying out theories of their own, they also get on faster. One of the advantages that children have over adults is that their life-ads are not, so full of erroneous ideas, and that they are accustomed to doing as they are told.*

The chief cause of delay seems to be that people will not believe the truth after it is demonstrated to them. You can demonstrate to anyone in a few minutes that *not* improving the vision, but the idea that everything worth while must be gained by effort is so deeply ingrained in the

average mind that you may not in a year be able to get it out, and so long as the patient believes that his sight can be improved by effort, he will make little progress.

In most cases it is necessary, in order to retain what has been gained, to continue the treatment for a few minutes every day. When a cure is complete it is always permanent. The patient need never think of the matter again, and may even forget how he was cured. But complete cures, which mean the attainment, not of what is colloquially called normal sight, but of a measure of telescopic and microscopic vision, are very rare; and even in these cases the treatment may be continued with benefit, for it is impossible to set limits to the visual powers of man, and so matter how good the sight, it is always possible to improve it.

## RELIEF AFTER TWENTY-FIVE YEARS

While many persons are benefited by the accepted methods of treating defects of vision, there is a minority of cases, known to every eye specialist, which give little or no help from them. These patients sometimes give up the search for relief in despair, and sometimes continue it with surprising pertinacity, never being able to abandon the belief, in spite of the testimony of experience, that somewhere in the world there must be some one with sufficient skill to fit them with the right glasses. The rapidity with which these patients respond to treatment by relaxation is often very dramatic, and affords a startling illustration of the superiority of the method to treatment by glasses and muscle-cutting. In the following case relaxation did in twenty-four hours what the old methods, as practiced by a succession of eminent specialists, had not been able to do in twenty-five years.

<sup>1</sup> "Yesterday, the 26th, I made a test with double minutes' practice. I could get the lines distinct, and made out the capital letters, but none of the text at a scant three inches. I could not read it readily, though I could not see it perfectly. This was by an average daylight—no sun. In a good daylight I can read the newspaper almost perfectly at a normal reading distance, say fifteen inches. I am able now to read ordinary print at a distance from my eyes without straining; but I practice bringing it so close that it is not quite clear, and after closing and reopening my eyes and looking at the text at clear and black, or of a perfect black line, it clears up. I am confident now that in a few weeks I will be able to read the fine print at three inches. Now that the eyes have established this, so will I soon to the best results on close work by consciously relating as much as I can, avoiding all conscious effort to see better, and insensible work or letters perfectly clear and black. All symptoms have come from the eyeballs, but there are little muscle laches that catch me when consciously conscious or close the lid. The last few days they abound.

They just been trying the his card for distance in the out-of-door light of an overcast day at two in the afternoon. At twenty feet I lost all the bottom line, but the "5" and "6." The "R" also is black, but I think I have done a little better than this. The holes begin to come out continuously both on the fine print and on the his card at a distance. I am sure that I only have to keep on to win.

### FACTS VERSUS THEORIES

Reading fine print is commonly supposed to be an extremely dangerous practice, and reading print of any kind upon a moving vehicle is thought to be even worse. Looking away to the distance, however, and not seeing anything in particular is believed to be very beneficial to the eyes. In the light of these superstitions the facts contained in the following letter are particularly interesting.

Tracking home Monday morning I was surprised and pleased at the consensus of my family regarding the appearance of my eyes. They all thought I looked so much brighter and rested, and that after two days of calibrating, I didn't quit my eyes in the least on the way home. I read magazines and newspapers, looked at the scenery; in fact, used my eyes all the time. My sight for the near points splendid. Can read for hours without tiring my eyes... I went downstairs to day and my eyes were very tired when I got home. The fine print on the card (donated type) helps me so... I would like to have your little Bible (a photographic reduction of the Bible with type much smaller than diamonds). I'm sure the very fine print has a soothing effect on my eyes, regardless of what my previous vision was. Yours truly,

It will be observed that the eyes of this patient were not tired by her two days calibrating, despite which she read constantly – she was not tired but keen of mind; after her vision, they were noted to be modest extremely fine print, but they were not much tired by a win diamonds device which they were not called upon to focus upon small objects. Later a leaf from the Bible was sent to her, and the writer

The effect even of the first effort to read it was wonderful – you will believe it, I haven't been troubled having my eyes feel crossed since, and while my actual vision does not seem to be any better, my eyes feel a great deal better."

2. In astigmatism the eye is biphocal. In simple hypermetropic astigmatism one principal meridian is normal, and the other, at right angles to it, is flatter; hence the eye is far-sighted in one curvature and normal in another. In simple myopic astigmatism the contrary is the case, one principal meridian is normal and the other, at right angles to it, more convex, making the refraction normal in one curvature and short-sighted in another. In mixed astigmatism one principal meridian is too flat, the other too convex. In compound hypermetropic astigmatism, both principal meridians are flatter than normal, one more so than the other. In compound myopic astigmatism both are more convex than normal, one more so than the other.

4. When the patient becomes able to imagine that the letters on the test card are exocentric, everything else thought of also seems to be exocentric. This is the universal crisis.

3. When the night is in

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