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THE OTOLARYNGOLOGIC PATIENT AND NUTRITION*

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According to the National Research Council, it is a statistical fact that at least two out of three Americans are living on faulty diets. Different figures are given for various studies, and in a recent survey of school children in the State of Vermont (Pierce), certain signs of past or present inadequate nutrition were found in 85 per cent of the children. The physician who yesterday treated thirty average patients consequently saw twenty individuals who were in need of dietetic and nutritional guidance. When to this number are added those who use tobacco, alcohol, caffeinated drinks, and other drugs, to say nothing of their indulgence in irregular habits of living, there remain few patients indeed who would not benefit by sound advice on diet and living habits. It is obvious that responsibility for giving this advice must rest with each individual physician, be he a general practitioner or a specialist; for consultation with a nutritionist is not available to, or practical for, the great majority of patients.

To sit down with each patient and verbally elicit a nutritional history is not practical and consumes too much time. To circumvent that difficulty, I use a four-page questionnaire**

* From the Department of Otolaryngology, College of Medical Evangelists.

** The space allotted to this article does not permit publication of the questionnaire or details concerning its use. Copies of the form are available on request. Similar history forms have been described in the literature by Moose, Roberts, and Spies.
the fact that she worked at a soda fountain and partook heavily of cane sugar in the form of ice cream, milk shakes, and sweetened drinks. She presented a typical picture of riboflavin deficiency with glossitis and fissuring at the angles of the mouth. In addition she had been suffering with asthma and hay fever for several years. Oral riboflavin therapy caused prompt healing of the mouth lesions, and additional nutritional guidance also effected relief of the hay fever symptoms.

Vitamins have lost a degree of their former mystery, and we now know that some of them are intimately associated with the enzyme systems in body metabolism. For example, thiamin aids in cellular oxygen uptake, and it has been demonstrated in pigeons that when it is deficient, pyruvic acid will accumulate in brain cells. In humans there is also an increase in blood and tissue pyruvate (Nutrition Reviews). If thiamin deficiency produces such profound changes, and riboflavin deficiency can produce ulceration of the lip margins, it is quite likely that a grossly deficient diet will produce other severe changes in the tissues of the ear, nose, and throat. It is to be hoped that eventually these effects can be better demonstrated and classified.

Much has been said and written in recent years about the importance of psychosomatic factors in aggravating the symptoms of many patients. Recent reports (Williams et al.; Keys et al.) have shown that certain of the symptoms of neurosis can be produced experimentally by diets deficient in some of the B vitamins. Thus when evaluating a patient’s complaints we should also evaluate his diet, for some of his feelings may be due merely to impaired nutrition and not to organic disease or a functional neurosis.

It is not my purpose to infer that one group of food factors, such as the vitamins, is the all-important thing, for in recent years the role of proteins in metabolism has also received special attention, as is attested by the increased use and study of amino-acid preparations, and we are now beginning to understand the function of some of the individual amino acids. A diet history form enables the practitioner quickly to determine whether the patient receives too much or too little protein and the approximate biologic value of each type. Mineral intake may also be readily evaluated.

Another common American evil is self-medication, and of this the laxative habit is perhaps the foremost. Laxatives constitute a definite nutritional hazard in that many times they interfere with digestion and absorption of certain essential foodstuffs, the most classic example, of course, being the effect of liquid petrolatum in preventing absorption of fat-soluble vitamin A. In many cases advice about simple hygienic habits to replace the need for cathartic drugs will be very successful, and it is doubtful that specialists in colon diseases will object to this advice being given, for the otolaryngologist is not treating colon disease but is merely advising the patient to abandon an unnecessary, health-destroying habit. Salicylates and sulfonamides, besides their direct toxic action on tissues, may also interfere with vitamin metabolism.

Allergic individuals have been found to benefit by nutritional correction. I do not refer to elimination of allergenic foods but to correcting the entire dietary so that the body has opportunity for normal nutrition. The idea that nutritional deficiency or imbalance might be a cause for an allergic state is not new, for Russell Wilder has stated, “Yet some evidence suggests that allergy itself may be occasioned by unbalanced diets.” The nutritional approach to treatment of allergic states will be reported in a separate study, so no further mention will be made now.

I have found patients who have been placed by physicians on very restricted diets or potent
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A brief survey has been presented showing the close relationship between faulty nutrition and some of the common conditions seen in otorhinolaryngologic practice. The benefits that accrue, both to the physician and to the patient, from a detailed nutritional history are stressed, and the suggestion is made that the elicitation of the history is facilitated by using a comprehensive, yet simple, printed form which the patient can fill out at home. The method is adaptable to fields of practice other than otorhinolaryngology.

SUMMARY

Not only is the nutritional history idea helpful to the physician, but the patients are usually gratified and pleased that their doctor will take such a detailed interest in their health. It can be adapted to almost any field of medical practice, and those who have used the plan have found it very helpful. I personally feel that if I should fail to consider my patients' nutrition carefully, I would often rob myself of helpful diagnostic criteria, and in turn inadvertently withhold from the patients essential help and advice. Otolaryngology has passed through several overlapping phases of therapy, usable features of each, of course, remaining to this day. The antiseptic era has come and gone. Then came the anatomical (surgical) era, to be followed by the immunologic period, and it, in turn, by the chemotherapeutic one. Now we are in the midst of the antibiotic age, but the nutritional era, which has waited in the background for many years, seems about to come of age.

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