DENTISTRY

Thymol, Alcohol, Ether Used In New Dental Pain-Killer

Ingredients Obtainable at Any Good Drug Store Make Mixture That Has Banished Dread of Dentist's Chair

DENTISTS all over the country are visiting their druggists. They are buying three things: thymol, ethyl alcohol, and sulphuric ether. These are the ingredients of the new Hartman formula that takes the pain out of tooth drilling.

Announced by Prof. Leroy L. Hartman, professor of dentistry in the Columbia University School of Dental and Oral Surgery, the new pain-killer is applied to the dentin of a tooth, lying just below the enamel, and makes possible drilling of a cavity without feeling on the part of the patient.

Here is the formula which Prof. Hartman disclosed before 3,000 of his fellow dentists at a joint meeting of the First and Second District Dental Societies of the State of New York:

Formula by weight

The solution is kept in a brown bottle and applied directly to the dentin with a moistened pellet of cotton. The pain-killing effects lasts one hour if the cavity is kept dry by the use of a rubber dental dam. If saliva dilutes the solution the effect may last only twenty minutes. But because the local anesthetic is designed to kill pain only during drilling, the time is ample. A seventy-five cent bottle of the Hartman formula is sufficient for 200 applications.

Not Good for Self-Treatment

Sufferers from toothache are doomed to disappointment if they rush to the nearest drug store, have the solution prepared and apply it directly to an aching tooth. It must be placed in contact with the dentin inside the tooth and not on the outer enamel for its pain-killing effect. The discoverer of the formula and officers of the dental society warned:

"In the interest of public welfare we warn the public against attempting to use this preparation for the self-treatment of toothache. It is effective when used by a dentist under the proper conditions."

The only possible condition where the solution might aid a home sufferer temporarily would appear to be in the case of a large cavity in a tooth where the dentin is exposed and the outer enamel broken away. With a sure means of preventing pain during drilling, however, many persons who dread the dentist's chair should feel more like visiting their dentist regularly.

A drug manufacturer has already begun the preparation of the tooth desensitizer for distribution to dentists of the nation.

Out of 500 volunteer cases which Prof. Hartman has treated, the only failures occurred when the solution came in contact with phenol, or carbolic acid, which is commonly used in dentistry to sterilize cavities. The phenol must be removed from the cavity, or else several applications of the Hartman solution must be applied to dissolve the phenol.

A doctor turned patient had "his greatest thrill in a dental chair" when a cavity in one of his very sensitive teeth was drilled and filled painlessly with the aid of the new "desensitizer" developed by Dr. Hartman.

Dr. Hartman related the incident in a report of his desensitizer at the meeting of the First and Second District Dental Societies of the State of New York. The name and chemical composition of the desensitizer were made public for the first time at this meeting.

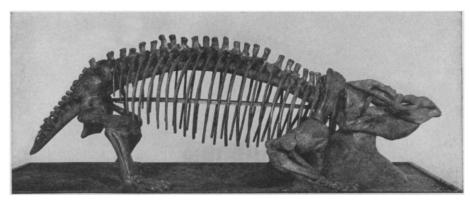
Unlike other anesthetics, which must be injected into the nerves or pulp of the teeth, Dr. Hartman's pain-killer is applied on a bit of cotton directly to the dentin, the area beneath the enamel of the tooth. Dentists have previously held that there are no nerves in the dentin. Dr. Hartman believes this idea is contradicted by the experience of patients who "say that the only part they dread in a dental operation is when you suddenly strike the nerve with the drill."

A Dentist as Guinea-Pig

This painful experience will soon be a thing of the past, it seems, as a result of Dr. Hartman's discovery. Less than two minutes after the desensitizer has been appplied, the drilling may be started without pain or discomfort. The pain-killing effect lasts from twenty minutes to an hour, giving plenty of time to prepare almost any cavity for filling. There are no unpleasant after-effects and the pulp of the tooth remains normal.

Dr. Hartman reported to the dental society a number of cases of patients who had always been especially sensitive to the dentist's drill. Among them was Dr. T., who made a special trip to New York to find out for himself about the new solution.

"He claimed to be the world's worst patient," stated Dr. Hartman, "and ask-



OLDER THAN THE DINOSAURS

Two hundred million years ago, in the Late Permian age, there was living flesh on these bones: a thick-bodied, sluggish, plant-eating reptile about seven feet long. It had horny jaws, toothless except for a pair of tusks in the male. Probably an easy victim to the reptiles-of-prey that roamed the South Africa of that time, this beast has left few and very fragmentary remains. This practically complete skeleton, brought to the University of Chicago by Dr. A. S. Romer, is the first of its kind to be mounted in any museum. The creature, known to scientists as Dicynodon tigriceps, is given a full description in the Journal of Geology by Everett Clare Olson.