DOMINION DENTAL JOURNAL

If we diagnose this as a pathological conditio, the indications will be to gently remove as much of the debris as may be done without severe pain, neutralize any free acid with a drop of liquor ammonia, and fill temporarily with zinc phosphate, thus shutting out the irritant and permitting the exalted sensibility to subside.

If the sensitiveness, extreme though it be, is the normal condition of the tooth, temporary filling for a month, or for a year, could not be expected to afford any relief. The fact that the average dentist is able to discriminate with a good degree of certainty between the normal and the pathological, does not bring him much comfort. What he wants is some easily available treatment that shall promptly control either or both. For this purpose the whole materia medica has been ransacked, and on one theory or another, or on no particular theory but at hap hazard, a large proportion of the therapeutic agents known to science have at some time been recommended and tried, with such indifferent success, that there is still an anxious inquiry from our patients for some relief from the tortures of dental operations.

A great deal may be accomplished by gaining the confidence of the patients -by stimulating their courage -by tact and gentleness of manner and touch, by the use only of suitable and sharp instruments, skilfully and intelligently used; but even so, there is still very much to be desired. Surely science or common sense can suggest some means to this end, Referring again to the structure of living dentine, we find the tubules occupied by fibrillae, ready instantly to communicate the fact of any injury to their extremity. If it were possible to cause these fibrilla to draw themselves back into the tubules so that there should be a free, unoccupied portion of the tubule which would be cut off without injury to the retracted occupant, it would seem that we had accomplished our desire. not entirely; as there would still remain that part of the pain due to vibration caused by the force necessarily employed in cutting dentine; this would be slight. Is it possible to secure this retraction? Agents which stimulate contraction are at once suggested. Contraction of living tissue is, however, not a condensation of bulk but merely a change of form. As the tubules are already full and the walls are unyielding, change of form so as to produce contraction is not possible. A large percentage of the contents of the tubules is water; if a portion of this could be removed, until it could be replaced again from the central source of supply, the cell would shrink from its free end towards its central attachment.

This is doubtless what occurs when a carious tooth has been isolated and protected by the rubber dam and the free moisture in the cavity absorbed; the natural heat of the tooth slowly evaporates the water, the