

Follow's Featmotes



One of the most readeble and ferrile American disclessis that of George I empletion Strongs Over the years from 1835 to 1875. Strong kept a faithful record of his abservations and experiences. The massive four-volume Diairy was published by the Macmillan Co. in 1932, under the scholarly direction of Allian Nevins and Million Thomas. A prominent New Yorker, Strong had varied interests in business, education, and politics, with a special activity in the affairs of the sanitary commission during the Civil War. The Diary contains five diurnal accounts of particular interest to the dentist reader.

On June 29, 1837, Strong wrote of a personal misfortune that dramatizes the home locale as the scene of many dental accidents:

Last evening as I was exercising a little with a pair of dumbhalls just before getting into bed and was employing them pugilishwise. I brought doe of them in some strange way in contact with one of my front teeth, and though the slocke was a very elight one, it knowled a piece off, laying bare the nerve, and disabiling me from eating enything warm of cold—and using my front teeth at all. Moreover, so much enables is detacted that the teeth with including logically active for spottaches, demiats, wrenches, files, saws, false teeth and so forth—comfortable prospect. Well, what's done can't be helped.

On Jan 3, 1838, he reports a visit to Columbia to see the sophomores engage in the popular pastime of inhaling nitrous pxide. "I stipuld have thed bears to here this it inhall but I didn't see to make a fool of myself before half the freshmen and all the sophomores." On Dep 11, 1844, Horace Wells was to discover the enesthedic property of the "laughling gas." upon by the Columbia students as an entertainment device.

On March 5, 1839, Strong recorded a rentribodity note should selve had been for many years "a martyr to the doublourbux."

Uncle Thomas arrived from Long Island almost frantic with the agony of that disease. The Hercules that finally vanquished the Highs was the properties of rether question of interpretation of the High and the prepared by rubbing down five grains of acconding with the diseased name and rubbing the surgos slightly with it. It entered an immediate cure—after one hundred and fifty other expedients had falled. The pain now and then recure slightly, but a slight explication transmit sentropy it.

In his entry for Nov 25, 1843, Strong optics his attempts to entere a toothache by recorting, as millions had done before him, to philosophic thinking.

Heard a good sermon this morning from Mr. Blighbée and did not hear a good one this afternoon from Dr. Watnwillight, for I had a toothache in a cangus molar than hearly drove me out of church. Tried to reflect on and take comfort at Carlyle's "What difference does it make whether thou art happy or not?" but couldn't convince magnifully indifferent nature of the point.

The outstrally complex strong sites in his joining for Aug 31, 1847 an extraction and heintions the name of the dentist. Or. Nathan C. Keep is one of the leading figures in American dental history. A charter member of the American Society of Dental Surgicios and the first dean of the Parvard Dental School (1868), Dr. Keep gained a notable place in the records of foregoin dentistry by presenting the evidence that led to the conviction of Profession Webster for the wards; of DI Parkman. He also achieved fame in the field of anesthesiology by administering ather to Mrs. Henry W. Löngfellow, the first such use in obstetrical cases.

I had two big grinders dug out in three pieces by Dr. Keep while I was under the influence of ether. The operation was to pleasant that he great in have it represent.

Gardner P. H. Foley

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Mitchell Busin DVM Washington QC David W. Heese, DDS, Baltimore Clinton W. Gray, DVM, Washington, DG A. Everette James, Jr., ScM, MD, Baltimore

In zoological collections where elephants are housed in close quarters, it is not uncommon for tusk injuries to occur as a result of sparring. The injuries usually result in jagged or complete fractures of the tusks that may or may not require attention. This treatment may only entail grinding off sharp edges to reshape the tusk. Occasionally, fractures may occur within the cheek pouch involving the "pulp" of the tusk. Secondary infection of the pulp may necessitate tusk removal. This article describes the prolonged (two years, four months), unsuccessful medical

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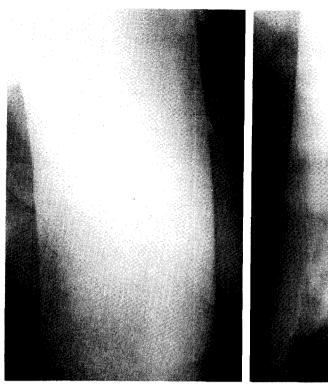


Fig 1 Left, radiograph of normal left tusk showing homogeneity of tusk. Right, radiograph of infected right tusk showing jagged edges and central hollow canal that extends past skinfold deep into central canal.

sisted of radiographs to determine the extent of the canal (Fig 1), and the exudate was again cultured to determine any change in antibiotic sensitivity. *Pseudomonas* and *Proteus* organisms were again cultured. Chloramphenicol succinate (Chloromycetin) proved to be the only effective agent against both organisms.

- Anesthesia: The elephant was given 8 mg of Etorphine (M99) via hand syringe. This dose was inadequate and 50 minutes later an additional 3 mg was injected by projectile dart delivered by a powder-charged rifle.* Immobilization occurred eight minutes after the second injection.
- Surgery: Surgical instruments included a variable speed one-half-inch power drill and craniotomy burs to which extension rods had been welded (Fig 2). Steel rods were sharpened and curved to produce a variety of chisels and hoeshaped curets (Fig 2).

The segment of tusk protruding 17 cm beyond the cheek pouch (Fig 3) was cut off, thus increasing access to the tusk canal. The canal was cleaned of debris and flushed with surgical soap.

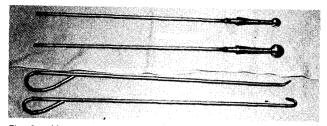


Fig 2 • Modified dental instruments (length, approximately 15½ inches) that included craniotomy burs on extension rods (above), and chisels and curets (below) were designed and made for surgery.



Fig 3 • Male forest elephant with jagged tusks as result of sparring. Right tusk has grown (17 cm) from cheek pouch in spite of infected pulp canal.

The craniotomy bur was used on the power drill to widen and deepen the canal from an initial 1.9-to 3.6-cm diameter and from a 10.5- to 22.5-cm depth. The final depth was established by reaching vital, bleeding, firm tissue. The chisel and hoe-shaped curets were used to remove remaining devitalized ivory within the canal. The cavity was flushed several times using hydrogen peroxide followed by tamed iodine (Betadine) and was packed with iodoform gauze† soaked with chloramphenicol. The canal was then sealed with a rubber cork to prevent contamination.

After surgery, the elephant was given 90 ml of long-acting penicillin (Bicillin) intramuscularly. Anesthesia was reversed by the administration of 22 mg of Diprenorphine (M50-50) via the tarsal vein one hour and 15 minutes after immobilization. The elephant was ambulatory and eating five minutes after the injection of the antagonist.

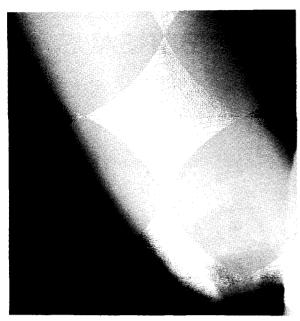


Fig 4 Radiograph of right tusk 22 months after "pulpectomy" showing surgically widened central canal and uniform density proximally of normally growing dentin.

Postoperatively, only a slight swelling was noted on the right side of the face for two days, but the elephant continued to eat and act normally. Twenty-two months after surgery, the tusk had grown without problems to 14.4 cm and a radiograph was taken (Fig 4). The packing and cork remained in place.

Discussion

The successful outcome of this surgical procedure was the result of a multidisciplinary ap-

proach through the collaboration of a dentist and a veterinarian. By viewing the tusk as a large modified tooth, it was possible to formulate an effective surgical treatment. The comparable surgical procedure in humans would be called a pulpectomy. The decision to leave the packing material and cork in place was made because of the previous work,² thus demonstrating the ability of the tusk to wall off foreign bodies. These remained within the ivory as inclusions and grew out with the tusk. The postoperative radiograph shows the area of the surgically widened tusk canal with an area of viable dentin posteriorly.

We think that this surgical procedure is indicated in similar tusk injuries, and in retrospect, we think it should have been performed months before.

Dr. Bush is a veterinarian, office of animal health and pathology, National Zoological Park, Smithsonian Institution, Washington. Dr. Heese is an instructor of dental surgery, Johns Hopkins Medical Institutions, and is in general practice, Baltimore. Dr. Gray is the head of the office of animal health and pathology, National Zoological Park, Smithsonian Institution, Washington, DC. Dr. James is associate professor, director, laboratory for radiological research, Johns Hopkins Medical Institutions, Baltimore, and consultant, National Zoological Park, Smithsonian Institution, Washington, DC. Address requests for reprints to Dr. Heese at Guilford Towers Apt, suite 102, 14 W Cold Spring Lane, Baltimore, 21210.

*Cap-Chur-Gun, Palmer Chemical and Equipment Co., Douglasville, Ga 30134.

†Nu Gauze, Johnson & Johnson, New Brunswick, NJ 08901.

1. Stringer, B.G. The removal of a tusk in an African elephant: a case report. Am Assoc Zoo Vet Ann Proc 1972-1973, p 271.

2. Miles, A.E. Healed injuries of elephant tusks. Br Dent J 133: 395 Nov 1972.

REPORTS OF COUNCILS AND BUREAUS

Accredited dental schools

Commission on Accreditation, Council on Dental Education

Dental schools that have approval, conditional approval, or provisional approval status are listed below. All programs have approval status except those designated with a cross (+) or an asterisk (*). A cross (+) indicates that the program has conditional approval status. An asterisk (*) indicates that the program has provisional approval status. The year following the name of each institution indicates the next regularly scheduled evaluation visit on a seven-year review cycle. It does not preclude the Commission from recommending that an evaluation be conducted prior to the designated year. Information about new programs is included at the end of the list. Definitions of accreditation classifications appear in the addendum to this listing.

Alabama

School of Dentistry, University of Alabama (1979) 1919 Seventh Ave S, Birmingham, 35294 Dean: Dr. Charles A. McCallum, Jr.

California

School of Dentistry, Loma Linda University (1979) Loma Linda, 92354 Dean: Dr. Judson Klooster

School of Dentistry, University of California at Los Angeles (1981) Center for the Health Sciences, Los Angeles, 90024 Dean: Dr. Andrew D. Dixon

School of Dentistry, University of Southern California (1977) 925 W 34th St, Los Angeles, 90007 Dean: Dr. Richard C. Oliver

*School of Dentistry, University of California, San Francisco (1982) San Francisco, 94143 Dean: Dr. Ben W. Pavone

School of Dentistry, University of the Pacific (1976) 2155 Webster St, San Francisco, 94115 Dean: Dr. Dale F. Redig Connecticut

+School of Dental Medicine, The University of Connecticut (1978) Health Center, 263 Farmington Ave, Farmington, 06032 Dean: Dr. Harald Löe

District of Columbia
School of Dentistry, Georgetown
University (1982)
3900 Reservoir Rd NW, Washington, 20007
Dean: Dr. Charles B. Murto

College of Dentistry, Howard University (1977) 600 W St NW, Washington, 20001 Dean: Dr. Jeanne C. Sinkford

Florida

College of Dentistry, University of Florida (1976) J. Hillis Miller Health Center, Gainesville, 32601 Dean: Dr. Don L. Allen

Georgia School of Dentistry, Emory University (1977) Atlanta, 30322

Dean: Dr. George H. Moulton

School of Dentistry, Medical College of Georgia (1980) Augusta, 30904 Dean: Dr. Judson C. Hickey

Illinois

College of Dentistry, University of Illinois (1982) 801 S Paulina St, Chicago, 60612 Dean: Dr. Seymour H. Yale

School of Dental Medicine, Southern Illinois University (1982) Edwardsville, 62025 Dean: Dr. Stanley P. Hazen

Northwestern University Dental School (1982) 211 E Chicago Ave, Chicago, 60611 Dean: Dr. Norman H. Olsen

School of Dentistry, Loyola University of Chicago (1976) 2160 S First Ave, Maywood, 60153 Dean: Dr. Raffaele Suriano

Indiana

School of Dentistry, Indiana University (1976) 1121 W Michigan St, Indianapolis, 46202 Dean: Dr. Ralph McDonald

Iowa

College of Dentistry, University of Iowa (1980) Dental Bldg, Iowa City, 52240 Dean: Dr. James H. McLeran

Kentucky
College of Dentistry, University of
Kentucky (1980)
Medical Center, Lexington, 40506
Dean: Dr. Merrill W. Packer

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