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ⁱ **Amoros, M., Lurton, E., Boustie, J., Girre, L., Sauvager, F., Cormier, M. (1994)** - Comparison of the **anti-herpes simplex virus activities** of propolis and **3-methyl-but-2-enyl caffeate**,
in the *J Nat Prod* May, 57(5), p.644-7 (***-abstract).

The in vitro activity against herpes simplex virus type 1 of 3-methyl-but-2-enyl caffeate isolated from poplar buds or prepared by synthesis was investigated. Under conditions of one or multiple multiplication cycles, this compound, which is a minor constituent of propolis, was found to reduce the viral titer by 3 log₁₀, and viral DNA synthesis by 32-fold.

ⁱⁱ **Baikowa, R.A., Terjochowa, N.W. (1978)** - Experience obtained in the **treatment of recurrent aphthous stomatitis** (author's transl),
in *Zahn Mund Kieferheilkd Zentralbl*, 66(5), pp.470-73.

Three different methods employed within the framework of complex therapy were used to treat 195 patients with recurrent aphthous stomatitis: 1. Alternative therapy using prodigiosan, a bacterial polysaccharide. 2. Desensitizing treatment by using histaglobulin, an antihistaminic agent. 3. Symptomatic local treatment. The methods of treatment are described in detail. General therapy allowed the frequency of relapses and the duration of disease to be reduced and shortened, respectively. The use of a complex form of therapy is recommended.

- ⁱⁱⁱ **Gafar, M.; Dumitriu, H.; Dumitriu, S.; Guti, L. (1989)** (Romania) - Apiphytotherapeutic original preparations in the treatment of chronic marginal parodontopathies. A clinical and microbiological study,
in *Rev Chir Oncol Radiol O R L Oftalmol Stomatol Ser Stomatol*, 36(2), pp.91-8 (***)

The paper presents results obtained by the treatment of chronic marginal parodontopathies with natural products of apiarian derivatives and vegetal extracts. These are original preparations such as Proparodont, sage extracts, watercress extracts, etc., by comparison with other similar existing products, and with zinc chloride. The clinical study evaluated the "inflammation status of the marginal parodontium" on the basis of variations in the PMA index. The microbiological study has established the bacteriostatic and the bactericidal activities of the products employed. The results obtained stress the high antimicrobial activity of the original products called Proparodont, and stress its antimycotic effects, especially against *Candida albicans*. The blackwort (*Symphytum off.*) extracts have a good repair effect, especially after surgical procedures. The complex original products based on propolis and vegetal extracts are indicated in the treatment of inflammatory lesions of the gingivo-parodontal tissues, and of the buccal mucosa. They also have antimicrobial effects, as well as antimycotic, antiinflammatory and antiscar effects. They do not have side effects which are characteristic for other medicinal drugs employed in the treatment of chronic marginal parodontopathies.

- ^{iv} **Ikeno, K.; Ikeno, T.; Miyazawa, C. (1991)** - Effects of propolis on dental caries in rats,
in *Caries Res*, 25(5), pp.347-51 (abstract).

Propolis, the resinous hive product collected by bees, is important in the defense of the hive. The effects of propolis on growth and glucosyltransferase activity of *Streptococcus sobrinus* 6715, *Streptococcus mutans* PS14 and *Streptococcus cricetus* OMZ61 in vitro, and on dental caries in rats infected with *S. sobrinus* 6715 were investigated. Propolis had antimicrobial activity against *S.*

sobrinus, *S. mutans* and *S. cricetus*, and inhibited both water-insoluble glucan synthesis and glucosyltransferase activity. In rats inoculated with *S. sobrinus*, about half of their fissures were carious, while dental caries was significantly less ($p = 0.01$) in rats given propolis. Dental caries was markedly decreased by the multiple actions of propolis which had antimicrobial activity, inhibited water-insoluble glucan synthesis, and inhibited glucosyltransferase activity. No toxic effects of propolis on the growth of rats were observed under experimental conditions in this study. These results suggest that propolis can control dental caries in the rat model system.

^v Kosenko, S. V.; Kosovich, T. (1990) - The treatment of periodontitis with prolonged-action propolis preparations (clinical and x-ray research),
in *Stomatologiya (Mosk)*, Mar.-Apr. 69(2), pp.27-9 (abstract).

A 4% alcohol solution of bee glue is suggested to be added to the filler for root-canal filling, besides the traditional treatment of the root canals with bee glue solution. Clinical and x-ray examinations have demonstrated a high efficacy of such technique in acute, exacerbated, and chronic forms of periodontitis. This filler is characterized by an anesthetizing effect; it resolves behind the root canal apex within 3-12 months, is preserved in the root canals, does not stain the tooth crown, promotes regeneration of the bone structures, and prolongs the effect of 0.4% water-alcohol bee glue emulsion.

^{vi} **Lambert, Priscila (1999) (Brazil)** - Carie en ratones fué reducida,
in *Folha de São Paulo*, 12 de Julho de 1999.

Estudios realizados com ratones de laboratório sugieren que el propoleo también inhibe la acción de bacterias causadoras de carie dentaria.

El bioquímico Yong Kun Park, de la Unicamp, realizó una investigación semejante la que demostró que algunos tipos de propoleo inhiben el crecimiento de las células cancerígenas.

Colocó 200 muestras recogidas en el país en contacto con cultivos de la bacteria *Streptococcus mutans*, principal causadora de las caries. Una de ellas, encontrada en Rio Grande Do Sul y en Paraná, inhibió el crecimiento del cultivo.

A partir de ese estudio, el cirujano-dentista Michel Hyunkoo, alumno de Park, resolvió, en su monografía de maestrado, aplicar el test a los animales.

El usó 30 ratas infectadas con la bacteria, divididos en tres grupos: uno de ellos recibió propoleo de Minas Gerais, otro, de Rio Grande do Sul. El tercer grupo no recibió propoleo. Por tres semanas, los animales fueron alimentados con una dosis exagerada de sacarosa y recibieron aplicaciones de propoleo sobre los dientes dos veces al día. El mejor resultado fué obtenido con el propoleo de Rio Grande do Sul. Los animales mantuvieron el esmalte dentario conservado, con inhibición del 60% de la acción de las bacterias. El grupo sometido al propoleo de Minas Gerais presentó algunas caries, con un índice de inhibición menor, entre 20% y 30%.

Las ratas que no recibieron propoleo presentaron la superficie dentaria totalmente destruída.

“Su acción depende del tipo de propoleo usado. De 200 muestras, solo una se mostro eficaz”, dice Hyunkoo.

Con este estudio, Hyunkoo ganó el premio Joven Investigador en el área de prevención de enfermedades bucales de América Latina, ofrecido por la Asociación Internacional para Investigación en Odontología, con sede en los EUA.

^{vii} Magro Filho, O.; de Carvalho, A. C. (1990) - Application of propolis to dental sockets and skin wounds,
in *J-Nihon-Univ.-Sch.-Dent.*, Mar.; 32(1), pp.4-13 (abstract).

The purpose of this study was to examine histologically the effects of propolis topical application to dental sockets and skin wounds. After topical application of either a 10% hydro-alcoholic solution of propolis or 10% hydro-alcoholic solution alone, cutaneous wound healing and the socket wound after

tooth extraction were examined. The rats were sacrificed at 3, 6, 9, 15 and 21 days after the operation. The specimens were subjected to routine laboratory studies after staining with hematoxylin and eosin. It was concluded that topical application of propolis hydro-alcoholic solution accelerated epithelial repair after tooth extraction but had no effect on socket wound healing.

viii **Magro-Filho, O.; de Carvalho, A. C. (1994) - Topical effect of propolis in the repair of sulcoplasties by the modified Kazanjian technique. Cytological and clinical evaluation,**
in *Journal of Nihon University School of Dentistry* 36(2), Jun, pp.102-11.

Abstract

A study was conducted to analyze the effects of propolis mouth rinse on the repair of surgical wounds after sulcoplasty by the modified Kazanjian technique. Twenty-seven patients who underwent sulcoplasty were divided into three groups: C1--patients who did not use the mouth rinse C2--patients who used a mouth rinse containing 5% aqueous alcohol T--patients who used a mouth rinse containing 5% propolis in aqueous alcohol solution. The patients returned 7, 14, 30, and 45 days after surgery for cytological and clinical evaluation. It was concluded that: 1) the mouth rinse containing propolis in aqueous alcohol solution aids repair of intra-buccal surgical wounds and exerts a small pain-killing and anti-inflammatory effect; 2) the vehicle employed has a minor irritant effect on intra-buccal surgical wounds; 3) exfoliative cytology allows epithelization of intrabuccal surgical wounds.

ix Martinez Silveira, G.; Gou Godoy, A.; Ona Torriente, R.; Palmer Ortiz, M. C.; Falcon Cuellar, M. A. (1988, 1991) - Preliminary study of the effects of propolis in the treatment of chronic gingivitis and oral ulceration (Spanish),
in *Rev-Cubana-Estomatol.*, Sept-Dec., 25 (3), 1988, p.36-44 (abstract) ;
in *Kaal*, 1991, pp.37-38 (***)

Since many years ago are known curative effects of propolis on different lesions due, mainly, to more than 30 biologically active elements isolated from it. It is a wordly accepted opinion that propolis is one of the most useful substances elaborated by bees. Despite it, its use in our country is relatively recent. Several investigators, specially in Matanzas, study curative effects of propolis in the field of human and animal medicine. In other countries it has been used in stomalogy, but we have no knowledge about its therapeutical effects in the periodontal disease or its effectiveness in oral ulcers. Therefore, a therapeutical form has been elaborated, which is provisionally called Propolan, for the treatment of two entities: chronic gingivitis and stomatitis of different etiology. The clinical cases supporting effectiveness found with the treatment applied in our setting are presented.

x Murray, M. C.; Worthington, H. V.; Blinkhorn, A. S. (1997) - A study to investigate the effect of a propolis-containing mouthrinse on the inhibition of *de novo* plaque formation,
in *J Clin Periodontol*, 24(11), pp.796-98 (abstract).

The results of a study to investigate the effectiveness of a propolis-containing mouthrinse in the inhibition of *de novo* plaque formation are presented. Subjects used a propolis-containing rinse, a negative control and a positive control in a double-blind, parallel, *de novo* plaque formation study design. The chlorhexidine mouthrinse was significantly better than the others in plaque inhibition. The propolis- containing rinse was marginally better than the negative control, but this difference was not significant.

xi **Ministerio de Salud Publica. Facultad de Ciencias Medicas. “MARIANA GRAJALES COELLO”, HOLGUIN, Cuba.**

xii Con la finalidad de contribuir a la aplicación de la propoleoterapia en las diferentes alteraciones pulporradiculares se realizó un estudio cuasiexperimental con muestra de 62 pacientes, los cuales asistieron a la consulta de Atención Primaria del Departamento de Estomatología en la Policlínica “Mario Gutierrez Ardaya” del Municipio Holguín en el período correspondiente del primero de Enero al treinta de Junio del año 1999 a los cuales se

les había indicado tratamiento pulporradicular.

Los datos fueron recogidos en un formulario confeccionado al efecto, además de la Historia Clínica de Endodoncia evolucionando con intervalo de siete días. Se determinó la efectividad de la tintura de propóleos al 5% en los pacientes tratados, con resultados significativos a favor de los que curaron. Se valoró el tiempo promedio para concluir el tratamiento, el cual se logró entre los siete y catorce días de iniciado el mismo. No se detectaron cambios en la coloración del diente tratado, sólo se encontraron 5 pacientes con cambios en la coloración del diente antes de iniciar el tratamiento, aspecto que atribuimos a la alteración crónica que ocasionó la muerte pulpar. No se observaron cambios durante el tratamiento ni al finalizar el mismo. No se produjeron reacciones adversas.

Por los resultados obtenidos se recomienda el uso de la tintura de propóleos al 5% como cura medicamentosa intraconducto en el tratamiento pulporradicular, así como continuar investigando la posibilidad de utilizarlo durante todo el tratamiento en diferentes formas farmacéuticas e intentar realizar la obturación definitiva con conos elaborados a partir de este apifármaco de magnificas propiedades.

^{xiii} Scheller, Stanislaw; Ilewicz, L.; Luciak, M.; Skrobidurska, D.; Stojko, A.; Matuga, W. (1978) - **Biological properties and clinical application** of propolis. IX. **Experimental** observation on the **influence of ethanol extract of propolis (EEP) on dental pulp regeneration**, in *Arzneimittelforschung*, 28(2), pp. 289-91 (abstract).

The use of ethanol extract of propolis (EEP) on injured dental pulp results in the stimulation of regenerative processes. A reduction of disorders of the circulatory system is observed, inflammatory and degenerative processes are also reduced.

^{xiv} Address: Department of Oral Biology, Faculty of Dentistry, Hebrew University-Hadassah, Jerusalem, Israel.

^{xv} Steinberg, D.; Kaine, G.; Gedalia, I. (1996) - **Antibacterial effect of propolis and honey on oral bacteria**, in *Am J Dent*, 9(6), pp.236-39 (abstract).

Purpose: To investigate the antibacterial properties of propolis and honey against oral bacteria *in vitro* and *in vivo*.

Materials and Methods: *In vitro* study: The antibacterial effects of propolis and honey on oral *streptococci* were determined using the broth method. Clinical study: The short-term antibacterial effect of propolis solution and honey on salivary total bacteria and *Streptococcus mutans* was tested in 10 volunteers. Results: Propolis demonstrated an antibacterial effect both *in vitro* on isolated oral *streptococci* and in the clinical study on salivary bacterial counts. Honey induced bacteria growth at low concentrations, while at high concentrations honey had an inhibitory effect on bacterial growth *in vitro*. Salivary counts of total bacteria and *Streptococcus mutans* were lower for 1 hour after application of honey. The antibacterial effect of the honey tested may be attributed to its osmolarity effect.