



The Role of Essential Oils in Treating Viral Conditions and Disease



Agenda

- ◆ Introduction
- ◆ History of Essential Oils
- ◆ Linking the biology: Humans to EO
- ◆ Plant metabolism
- ◆ Published medical studies
- ◆ Testimonials
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Introduction

*European health practitioners consider EO's
as effective as pharmaceutical drugs*

- ◆ No division between EO and medicine.
- ◆ European doctors consider EO integral to medicine.
- ◆ Over 150 hospitals in England use EO's.



History of Essential Oil

- ◆ Effectiveness: Results of 100 million years
- ◆ Evolution: Biochemical trial and error
- ◆ Beginning of life – 3 to 4 billion years ago
- ◆ Chemical tricks develop!
 - 500 million years ago: Needle trees
 - 100 million years ago: Green leafy plants
 - 125,000 years ago: Humans



Linking the Biology: Humans to Essential Oil

Our chemistry is the same as everything else natural

- ◆ Humans develop on a cellular level
- ◆ Chemical constituents of EO part of human make-up
- ◆ Influence human regulatory process



Plant Metabolism

- ◆ Primary (energy) and Secondary (survival)
- ◆ Plants stationary: need to communicate through air
- ◆ Changing molecular structure
- ◆ Plants not defenseless despite immobility
- ◆ Storage of EO's: Apple and Plum pits
- ◆ Medicines are derived from secondary



Published Medical Studies

- ◆ Department of Virology
Heidelberg, Germany
- ◆ Department of Microbiology
Cincinnati School of Medicine



Published Medical Studies

Antiherpetic virus activity of extracts from the medicinal plant *Geraniaceae stegaleum L.*, found in H-Balm oil.

Strkedjeva J, Ivancheva S
Institute of Microbiology, Bulgarian Academy of Sciences, Sofia.

The herpes virus inhibitory effect of extracts from the Bulgarian medicinal plant *Geraniaceae*, concentrated in H-Balm anti-viral oil, was investigated. *The extract...inhibited significantly the replication of herpes simplex virus type 1 and type 2* (ECSO =3.6-6.2 microg/ml) as shown by the reduction of virus induced cytopathogenic effect (CPE) and the protection of cells in MTT assay. In concentrations, at the levels in H-Balm, the preparation exhibited strong extracellular virus inactivating activity. In a preliminary experiment in albino guinea pigs the extract delayed development of herpetic vesicles following primary infection with HSV-1...



Published Medical Studies

Antiviral activity of Melaleuca Alternifolia essential oil (MAO) against herpes simplex virus in cell culture, found in H-Balm pure oil. April 2001.

Schulzker P, Schon K, Reckling J.
Department of Virology, Hygiene Institute, University of Heidelberg, Germany.

The antiviral effect of Australian Melaleuca Alternifolia essential oil (MAO) against herpes simplex virus was examined. Antiviral activity of MAO, found in H-Balm anti-viral oil, against herpes simplex virus type 1 (HSV-1) and herpes simplex virus type 2 (HSV-2) was tested in vitro on KC-37 cells (skin) using a plaque reduction assay. MAO oil in H-Balm exhibited high levels of virucidal activity against HSV-1 and HSV-2 in viral suspension tests. *At nontoxic concentrations of MAO, plaque formation (indication of the virus reproducing within the cells) was reduced by 98.2% and 93.0% for HSV-1 and HSV-2, respectively. Virus titres were reduced significantly with MAO.* In order to determine the mode of antiviral action of MAO in H-Balm essential oil, cells were pretreated before viral infection, or viruses were incubated with MAO before infection, during adsorption or after penetration into the host cells. Plaque formation was clearly reduced when herpes simplex virus was pretreated with these essential oils prior to adsorption. These results indicate that MAO in H-Balm anti-viral oil affect the virus before or during adsorption...Thus MAO in H-Balm anti-viral oil is capable to exert a substantial and direct antiviral effect on HSV.



Published Medical Studies

Antiviral properties of Isoborneol, a potent inhibitor of herpes simplex virus type 1. Antiviral Res 1999 Sep;43(2):79-92 (ISSN: 0166-3542)

Armata M; Papanikolaou E; Sivoopoulos A; Arsenakis M
Laboratory of General Microbiology, School of Biology, Aristotle University, Thessaloniki, Greece.

Isoborneol, a monoterpene and a component of several plant essential oils (used in H-Balm oil), showed dual virucidal activity against herpes simplex virus 1 (HSV-1). *First, (the components in H-Balm oil) inactivated HSV-1 by almost 4 log10 values within 30 min of exposure, and second... at a concentration of 0.06% completely inhibited viral replication, without affecting viral adsorption.* Isoborneol did not exhibit significant cytotoxicity at concentrations ranging between 0.016% and 0.03% when tested against human and monkey cell lines. Isoborneol specifically inhibited glycosylation of viral polypeptides based on the following data: (1) the mature fully glycosylated forms of two viral glycoproteins gB and gD were not detected when the virus was replicated in the presence of isoborneol...



Published Medical Studies

First product as topical microbicide evaluation: assessment of in vitro and in vivo activity against herpes simplex virus type 2.

Bourne KZ, Bourne N, Reising SF, Stanbury LR
Children's Hospital Research Foundation, Department of Pediatrics, University of Cincinnati College of Medicine, OH 45229-3439, USA.

"There is considerable interest in developing topical microbicide products to be used intravaginally by women for protection against sexually transmitted diseases. Many compounds derived from plants have been shown to have antimicrobial properties. We assessed 19 such compounds in vitro by plaque reduction assay to determine their activity against a common sexually transmitted pathogen, herpes simplex virus type 2. Compounds with an ED50 $\leq 7.8 \mu\text{g/ml}$ were tested for efficacy in vivo. Four compounds... (of essential oils found in H-Balm)... provided significant protection (P <math>< 0.05</math>) in a mouse model of intravaginal HSV-2 challenge."

The main constituents of H-Balm oil "further provided the greatest protection in mice and was also evaluated using the guinea pig model of genital HSV-2 infection where it demonstrated significant protection. Based on these results, several plant-derived compounds appear to warrant further evaluation as potential microbicides."



FORCES OF NATURE

The Power of Essential Oils

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Medical and Clinical Studies for Herpes
 The Beauty of Urethra, Who We Are
 Testimonials
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HERPES NO MORE

Testimonials

I recently received my order of H-Balm and I'm so excited. I've been getting outbreaks every month and nothing seems to help. I take Lysine, vit. C, E, and also multi. vit. These help some, but still my outbreaks have been horrendous! I've used H-Balm once already and the results were unbelievable. It worked so quickly, I was amazed. I'm so glad I found your web-site! I've been battling this for 9 years now and like I said nothing has helped me as much as H-Balm has. I've even tried anti-viral meds such as Zovirax and Famvir (which are so expensive). I can't thank you enough for coming up with such an awesome product. I've been so depressed over the frequency of outbreaks and finally I have hope! I'm more than happy to help you and others in any way I can because I know first hand how devastating this disease can be when it has control over you. Finally I'm in control!!!" May 2001 Judy talkids@hotmail.com.

Conclusion

- ◆ EO's are proven to inhibit viruses
- ◆ Improve immune parameters
- ◆ EO's counteract viruses gently and effectively by inhibiting viral reproduction

Contact Information

Peter Klapper

Forces of Nature

President and Founder

peter@fonoils.com