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Group Classification: Hygiene Proposal

## **Use of TheraBreath products in Bad Breath Patients: GCF and Halimeter Values, Effects of Oxygenized Saliva**

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There are several etiological roles which play a role in the ethiopathogenesis of bad breath. However, the major role is the bacterial production of hydrogen sulphide. These anaerobic bacteria live in areas where oxygen cannot reach them, including the back of the throat and tongue, interproximal areas of the teeth, periodontal pockets and enlarged tonsilla. A benefit to those who suffer with bad breath would be the use of an oxygenating agent which would eliminate the hydrogen sulphide and the anaerobic bacteria.

Twenty-five subjects suffering with bad breath were treated with TheraBreath brand stabilized chlorine dioxide mouthwash, toothgel, and spray. Their progress was monitored by using 3 scientifically reproducible methods:

1. Flame Gas Chromatography, used to measure the production of Volatile Sulphur Compounds in laboratories.
2. The Interscan Halimeter, which is used by some dentists to monitor the production of sulphides in their dental offices.
3. Periotron 8000, which measures the concentration of anaerobic bacteria and sulphides in collected saliva.

Results showed the following:

1. The Flame Gas Chromatography readings of Volatile Sulphur Compounds decreased significantly following use of the products.
2. A statistically significant decrease in Halimeter readings, showing that the oxygenating effect of TheraBreath reduced Volatile Sulfur Compounds.
3. Readings on the Periotron 8000 with regards to patient's saliva showed that TheraBreath had a beneficial effect.

Notes: This study was translated from Turkish so that it could be presented at the 4<sup>th</sup> International Symposium on Oral Malodor, August 20-21, 1999 at the University of California at Los Angeles.