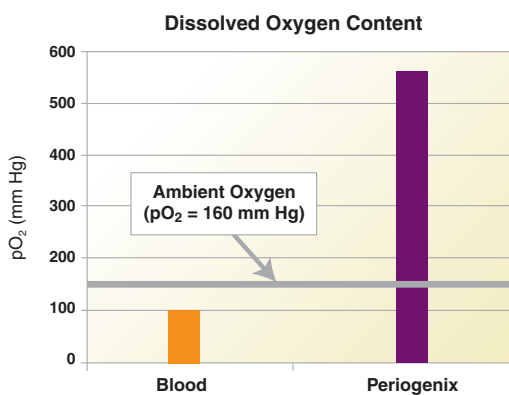
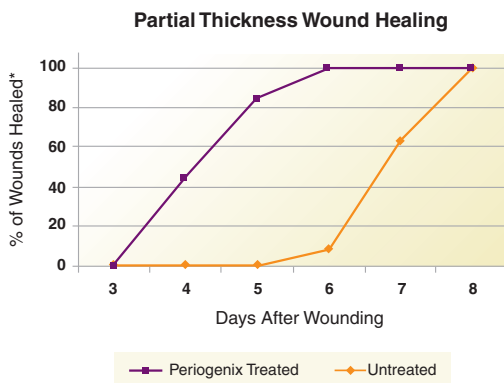


# perioGenix™

For the protection of injured periodontal tissue

OroScience® uses advanced science to develop ground breaking, easy to use products for oral wound healing, tissue regeneration, and oral disease management.

After years of research and 13 U.S. and foreign patents OroScience offers PerioGenix™, the first stable oxygen foamed emulsion for the treatment of oral wounds.



Application of PerioGenix to injured tissues accelerates wound healing and improves clinical outcomes<sup>1,2</sup>

- Accelerated healing of post-operative surgical wounds (partial thickness wounds and second degree burns; double blind, control, in vivo animal study p<.001)<sup>3</sup>
- Wounds treated with PerioGenix demonstrated an up-regulation of VEGF<sup>4</sup>, collagens I and III, and matrix metalloproteinase levels

Unlike occlusive wound dressings, the unique composition<sup>5</sup> and emulsion structure of PerioGenix allow for the exchange of oxygen and carbon dioxide into and out of injured tissues<sup>6</sup>.

This exchange of gas is essential to normal healing since the upper 0.25 – 0.40 mm of tissue derives its oxygen almost exclusively from the air and not the blood.<sup>7</sup>

**oroScience®**  
 Helping Nature Heal  
[oroScience.com](http://oroScience.com)

\* Epithelization was used as indicator of healing. Epithelization considered complete (healed) if no defect(s) were present; any defect(s) in the wound area indicated that healing was incomplete.

1. Accelerated Wound Healing in Animals; Davis SC, Cazzaniga AL, et al. Topical oxygen emulsion. Arch Dermatol. Oct 2007; 143(10):1252-1256.

2. Clinical data on file.

3. Partial thickness wounds evaluated starting day 3 (P < 0.001, days 4-7). 2nd degree burns evaluated starting day 7 (P < 0.001, days 7-11, P < .01 day 12).

4. Vascular endothelial growth factor (VEGF).

5. Perfluorodecalin phase of PerioGenix dissolves approx. 16x more O<sub>2</sub> and 3x more CO<sub>2</sub> than water (49 ml O<sub>2</sub>/100 ml and roughly 140 ml CO<sub>2</sub>/100 ml). Chemtech Volume 29, No. 10, 7-12. (Table 1: Physical properties of water and some fluorocarbon liquids).

6. Data on file.

7. M. Stucker et. al. The cutaneous uptake of atmospheric oxygen contributes significantly to the oxygen supply of human dermis and epidermis. Journal of Physiology (2002), 538.3, pp. 985-994.

Wound healing requires a variety of cells to increase their metabolic activity, resulting in a high oxygen demand.<sup>8,9</sup> Oxygen at the wound site has been shown to promote wound healing by stimulating several processes, including;

- Neovascularization<sup>10,11</sup>
- Collagen production<sup>12,13,14</sup>
- Epithelialization<sup>15</sup>
- Phagocytosis (engulfing of microorganisms, cells, or debris by macrophages or neutrophils)<sup>16</sup>
- Neutrophil-mediated oxidative microbial killing<sup>17</sup>
- Degradation of necrotic wound tissue<sup>18</sup>

Lack of sufficient oxygen (hypoxia) has been associated with pain in the wound area, with the prevalence of hypoxia being more pronounced in patients who are smokers and diabetics. These populations demonstrate slower wound healing and increased risk of wound healing complications compared to healthy patients.<sup>20, 21,22</sup>

Easy and comfortable use aids compliance

- Included universal-fit disposable dental trays ensure comfortable consistent application
- High concentration of oxygen produces significant emulsion expansion, ensuring good contact with the treatment area
- Neutral taste and smooth texture



**Available in the US only**

For prescription Use Only in the United States. Federal Law restricts this device to sale by or on the order of a dentist, physician or properly licensed practitioner.

**Kit Contents:**

- 30 mL (1 oz) Canister of Emulsion
- 30 Disposable Dental Trays

**Order online at [oroscience.com](http://oroscience.com)**

Periogenix Kit	PGX-KIT-01	\$149.99
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