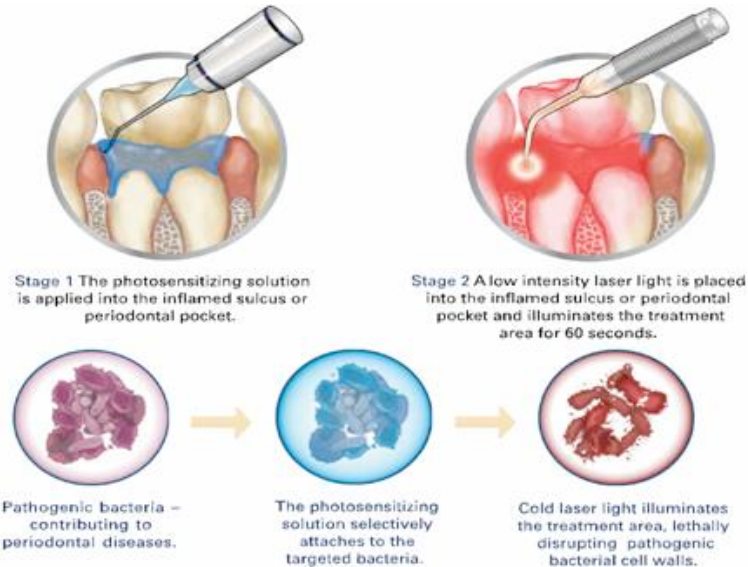


# Photodynamic Disinfection

## What is Periowave?

Periowave is a two step process by which photodynamic disinfection is achieved. **The first step** is the application of a photosensitizing solution which attaches itself to the bacteria which greatly contribute to periodontal disease. The solution is coloured blue to interact with the diode laser (see below). The colouring lends itself to a more accurate application process.

**The second step** is to use a cold diode laser to illuminate the solution. Laser illumination of this photosensitizing solution causes a reaction which results in the cell walls of periodontal bacteria being lethally disrupted and broken apart. The periodontal causing bacteria are destroyed in 60 seconds. Afterward, the destroyed bacteria and the solution are simply rinsed away!



## Is it safe?

Absolutely! Health and Welfare Canada has approved this treatment for periodontal use and is in the process of approving technology for other medical applications. The solution used is completely inert and safe enough to eat! The low intensity laser poses little threat, however, we will ask you to wear protective glasses, which is a standard safety procedure when using any laser.

## It's pain free?

Completely! The whole process of applying Periowave takes under 2 minutes per tooth, is completely pain free, requires no needles or anaesthetic of any kind, and most importantly, is very effective in mild to moderate periodontal sites.

## Periowave is not an antibiotic?

That's correct! This antimicrobial solution does not contribute to antibiotic resistance, which as you may know, is a growing problem in medicine today. Historically, an infected tooth would be treated with an antibiotic followed by conservative or surgical methods to quell the infection. Periowave is non antibiotic so it does not promote bacterial resistance making it ideal for treating dental infections. In addition, because the laser treatment is directed precisely at the site of infection, it treats only that area, versus a prescribed antibiotic which unnecessarily treats your entire body.

## What if I still need additional treatment?

As with any medical or dental procedure, there is no guarantee of success, however, photodynamic disinfection has had excellent clinical results for many periodontal patients. Dr. Galler would not recommend photodynamic disinfection if he did not feel it would be of benefit to you. If we find that this treatment is not successful in your case, we will explore alternatives with you. Remember that periodontal disease is a chronic condition which requires ongoing care. Photodynamic disinfection can act as an effective tool, controlling flare ups and possibly preventing the need for surgical care.

## Contact Us:

**By Phone**  
416.512.1146

**By Email:**  
[info@drgaller.com](mailto:info@drgaller.com)

## Hours of operation:

Mon - Wed: 9am- 5pm  
Thurs: 1pm - 6pm  
Fri: 9am - 2pm

## After hours emergency:

Dial 416.512.1146 and press 5 as soon as the voicemail greeting begins and your call will be routed to Dr. Galler directly. If you are unable to reach him via phone, email [drcg@rogers.com](mailto:drcg@rogers.com).

## Please note:

After hours contact should be reserved for emergencies only. We are always pleased to serve you during regular business hours.

**Dr. Cary Galler, Periodontics and Dental Implants**

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