

Biofilm Protocol Explained

Biofilm Protocol

Background: Bio-Films are mucous film that forms protective layers over bacteria and fungi colonies. They are common in nature, The film covering rocks in a river bed and the film the back of your teeth are examples of Biofilm Protocol. Bio-Films can either promote health or illness depending on the bacterial makeup and the size of the Bio-Film. Toxic bacteria and fungi within Bio-Films can be difficult to eradicate because they're protected by layers of mucus and minerals in the Bio-Film.



Often children have been previously treated with the Probiotic and seen improvement, But as soon as the treatment is

withdrawn, The symptoms return. The reason this happens is that the surface bacteria have been treated, But not those hidden deep within the Bio-Film. In order to get these protected pathogenic organisms, The Bio-Film has to be disrupted and the new Biofilm Protocol established with healthy flora.

The goal of treating the Bio-Film is to break down the Bio-Film and replace the pathogenic flora with healthy flora and reduce the total number of bacteria to a healthy level. One of the protocols we used to do this in our clinic uses SPS30 or Interface Plus and Metal Magnet for the cleanup agent.

BioFilm protocol instructions can vary a bit depending on the supplements and medications used in the protocol. Two concepts are common to most Biofilm Protocol. The first is that the enzyme used break down the Bio-Film must be given on an empty stomach and then allowed some time to work before adding the other killing agents. The second concept is that this debris needs to be removed with the cleanup agent. These cleanup agents by nature bind up almost everything, So they have to be given separately away from Vitamins, Medicines, and other Nutrients.

Basic Steps:

- Break down the Bio-Film with the use of specialized enzymes
- Wait 30 Minutes for the enzymes to break down the Bio-Film
- Add in Anti-Bacterial and/or Anti-Fungal Agents.
- Provide a source of replacement flora.
- Repeat the process two times per day.
- Once a day usually at bedtime add in a binding agent to Clean-Up the Debris.

Supplements You Will Need:

- Enzymes designed for Biofilm Protocol: Either SPS30, Interfase, Nattokinase, Lumbrokinase, or Interfase plus.
- Antibacterial/Antifungal Agents: (Pick one or two from the list) Biocidin, ProEnt2, Olive leaf extract, Grape seed extract, Candibactin AR or Candibactin BR, ADP (Not Suitable for small children due to the strong oregano smell and taste)
- Clean-Up or Binding Agent: (Choose one) GI-Detox, Metal Magnet, Extox, Toxin Free, Activated Charcoal, True Fiber, Modified Fruit Pectin, or other Binding Agent.

Morning and Afternoon:

Enzymes are given first thing in the morning on empty stomach. It is essential that the enzymes are not given with food, Because if they are given with food, The enzymes would just break down the food and not the Bio-Film. If need be a very small amount of food may be used to help get the enzymes into the child. Other medications may be given at this time as well. The enzyme should be given again later in the day, again away from food at least 30 Min. Before a meal and at least one hour after a meal. The next step is to wait 30 min. To allow the enzymes time to break down the Bio-Film. Then give your choice of Antibacterial/Antifungal agents these can generally be given with food. We usually use a combination of a couple of agents one that has activity against bacteria and another with Antifungal activity together. This step is repeated twice a day.

Evening or Bedtime:

This is usually the best time to give the binding agent. The important thing to remember about binding agents is they bind everything including medications and supplements, So they need

to be given separately and away from everything else. No other supplement or medication should be given within one hour before giving a binding agent. The binding agent will help bind up heavy metals and other debris and reduce the severity of Herxheimer reactions. You may see a Herxheimer reaction when you first start the Biofilm Protocol. A Herxheimer reaction is a flu like feeling, which is caused by the sudden release of toxins from dead bacteria. If the Herxheimer's reactions are too severe then the dose of the killing agents needs to be reduced for a few days or stopped all together.

Miscellaneous:

A bowel antioxidant is very helpful at reducing symptoms during the protocol. Oxyperm is an antioxidant designed for this purpose and is our preferred agent. It can be omitted, but the protocol generally works better with Oxyperm.

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