

# NeilMed<sup>®</sup> HydroPulse<sup>®</sup> Neo

Nasal/Sinus Pulsatile Irrigation System

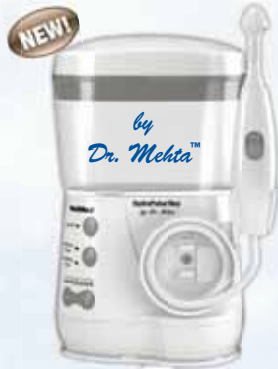


*Multi-Speed Pulsating Nasal Wash • Variable Flow Rate Control*

5003S-BRO-HYDP\_Rev5\_Hydro Pulse\_PP20210320

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Nasal/Sinus Pulsatile Irrigation System  
and Pulsatile Throat Irrigation System

Contains no latex or rubber products.



## INTRODUCTION



Nasal irrigation is a personal hygiene practice used for thousands of years in my native India. When I moved to the United States in 1981 to further my medical training, I had no idea I would find my future in this ancient tradition. I am a practicing physician who specializes in pulmonary and critical care medicine in Santa Rosa, California.

In my practice, I have relied mostly on the constantly evolving Western medical technologies. However, after suffering from chronic sinus disease and trying a range of treatments to control my symptoms—including corrective surgery—I discovered that the most effective therapy was the ancient practice of nasal irrigation. In my practice, I began prescribing this simple treatment to my patients. I believed that routine saline nasal rinsing would significantly reduce and may cure their symptoms. A large number of patients did improve after trying nasal irrigation. However, they returned with the same symptoms when they stopped doing nasal rinses on a daily basis. I realized the important need for a product that would be easy to use for daily nasal rinse.

In January 2000, I formed **NeilMed**® Pharmaceuticals and began marketing the **SINUS RINSE™** kit. This effective and soothing large volume nasal rinse system incorporates years of medical knowledge and the invaluable suggestions of medical colleagues and patients. Due to the product's effectiveness and

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widespread acceptance by doctors, **NeilMed® SINUS RINSE®** is now the #1 physician recommended nasal irrigation system in the United States and Canada.

It is also widely available in over 30 countries worldwide. Today **NeilMed®** Pharmaceuticals offers a full line of nasal irrigation and health products designed to help children and adults breathe more freely and comfortably through their nose. This educational brochure provides you with directions for the proper use of our products as well as extensive information about nasal and sinus health. Should you have any further questions or comments, please contact us through our website or by calling us directly. We are here to serve you and welcome your thoughts or concerns.

Sincerely,

**Ketan C. Mehta, M.D., CEO & Founder**

Diplomate, Certified by the American Board of Internal Medicine.

**NeilMed®** is the #1 brand in North America for large volume saline nasal irrigation devices. Our goal is to ensure the highest possible quality, safety, effectiveness, and ease of use for our devices at an affordable price. We are highly committed to meeting applicable regulatory, customer and quality standards and achieving increasing levels of customer satisfaction.

**NeilMed®** prides itself on quality product and values customer satisfaction. Our policy is to provide a full moneyback guarantee within 120 days if you are



unsatisfied for any reason. Today we support medical research at several university medical centers, and charitable causes with equal passion. I assure you that you will be very satisfied with the **NeilMed®** brand of products and the **NeilMed®** way of customer service.

## WARNING

We recommend rinsing your nasal passages with **NeilMed® SINUS RINSE®** packets only. Rinsing your nasal passages with only plain water without the saline mixture will result in a severe burning sensation, as plain water is not physiologic for your nasal lining, even if it is appropriate for drinking. Additionally, for your safety, do not use tap or faucet water unless it has been previously boiled for five minutes or more (and then cooled down) as boiling sterilizes the water. Other choices are distilled, micro-filtered (through 0.2 micron), reverse osmosis filtered or commercially bottled water. You can store boiled water in a clean container for seven days or more if refrigerated. Do not rinse if your nasal passages are completely blocked or if you have an ear infection or blocked ears. If you have had recent ear or sinus surgery, contact your physician prior to irrigation. If you experience any pressure in the ears or burning in the nasal passages, stop irrigation and get further directions from your physician. Keep out of reach of children. Read and retain this enclosed brochure for instructions and other important information.

We recommend that you use the **HydroPulse® Neo ONE HOUR** PRIOR to bedtime in order to avoid any residual solution dripping down the throat.

Patients who are unable to stand up or bend near the sink SHOULD NOT use this product.

We strongly advise against the use of the **HydroPulse® Neo** on children or adults who are bed bound or have

physical limitations or mental disabilities, and thus are not physically able to perform irrigation or able to understand the directions. Adults should read the directions first before using it on their children. Keep out of reach of children. Do not swallow the solution; however, if you do so accidentally, there is no harm as the amount of sodium ingested in one swallow is insignificant.

## CAUTIONS

The **HydroPulse® Neo** is an electrical device, and like all other electrical devices, requires precautions to guard against fire and electric shock. Read and understand all cautions. If you have any questions, contact customer service before use.

### READ ALL INSTRUCTIONS BEFORE USE

**DANGER - To reduce the risk of electricity related hazards:**


- Unplug this product before filling. Fill the reservoir with water only unless otherwise specified by the manufacturer. Do not overfill.
- Always unplug this product immediately after using.
- Always remove the plug with dry hands. Remove the plug from socket for storage and maintenance. Never remove the cord by pulling the wire.
- If the plug is dusty, clean it before inserting into the wall.
- Product should never be left unattended when plugged in. Close supervision is necessary when this product is used by, on, or near children or the physically or mentally impaired. The **HydroPulse® Neo** should not be used on children under the age of 5.

- Do not use while bathing.
- Do not place or store product where it can fall or be pulled into a tub or sink.
- Do not place in or drop into water or other liquids.
- Do not reach for a product that has fallen into water. If the device falls into water, unplug immediately.
- Keep the cord away from heated surfaces.
- Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair and the like.
- Never use this device if electric cord is frayed, if the plug is broken, or if this device blows a fuse.
- Do not use attachments not recommended by the manufacturer.
- Never drop or insert any object into any opening or hose.
- Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.
- If the device stops working, contact **NeilMed®** customer service. Do not try to service or modify unit. Never open the unit.

**This product is 100% guaranteed for two years from date of original purchase.**

## IMPORTANT SAFEGUARDS

This product is not a toy; it must be kept out of reach from children.

 Possible electric shock.

 Do not take machine apart.

The **NeilMed® HydroPulse® Neo** Pulsatile Nasal/Sinus Irrigation System must only be used as directed. Failure to use as directed could result in injury. If you have any questions about the use of this product, contact customer service before use.

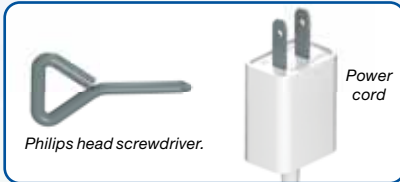
Always follow your doctor's instructions if they are different from those in these instructions.

Please inform your doctor that you are using this product. Be sure to ask your doctor for instructions about use after sinus/nasal surgery. Follow your doctor's instructions carefully when adding prescribed antibiotic or antifungal medications to the **HydroPulse® Neo**.

### SAVE THESE INSTRUCTIONS

#### Assembly Instructions

1. Locate the white box containing the power cord and a small Philips head screwdriver.



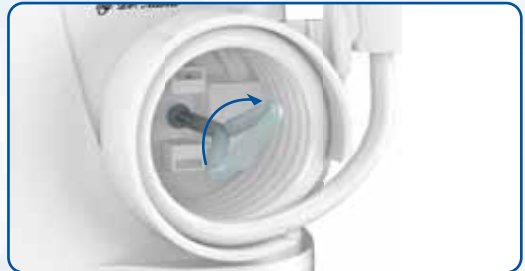
2. Slide the tubing unit into the base of the device where indicated, using the slot as a guide. Push until the tubing unit snaps into place.



3. Insert the provided screw into the center of the compartment, as shown in the photo. Use the included Philips head screwdriver to tighten the screw.



*Insert the screw into the center of the compartment.*



*Use the Philips head screwdriver to tighten the screw.*

#### Instructions for Tubing Replacement

1. To obtain replacement tubing, please contact NeilMed® Pharmaceuticals, Inc. by calling **1 (877) 477-8633** or emailing **questions@neilmed.com**

## Instructions for Nasal/Sinus Irrigation

**Step 1:** Plug the machine into the power source.

**Step 2:** Prepare solution: Remove lid from the water reservoir and fill reservoir with 16 oz (480 mL) of lukewarm water. Use only distilled, commercially bottled, or previously boiled and cooled water. Filtered water is safe only if it has been filtered through 0.2 micron filter or reverse osmosis system. Add 2 blue **NeilMed® SINUS RINSE®** mixture packets or one green **NeilMed® SINUS RINSE®** mixture packet and mix thoroughly using the included stirring spoon to fully dissolve the mixture. We recommend that you do not use homemade salt mixtures for nasal irrigation, as they may have inaccurate concentrations and lead to inadequate relief, a burning or stinging sensation, or even nasal congestion.



**Step 3:** Open the compartment on the top of the lid of the water reservoir to locate the tips. Select the desired tip for nasal irrigation and insert into the irrigation handle. We recommend that users start with the 3 mm tip, however, if you desire more pressure, you may use the 2 mm tip, and for less pressure, you may use the 4.5 mm tip. Each tip is offered in an angular or straight design.



*Open the compartment on the top of the lid to locate the tips.*



*Remove the nasal irrigator tip and insert into irrigator handle.*



*Remove the reservoir and open the lid.*



*Fill reservoir with water.*



*Add 2 blue NeilMed® SINUS RINSE® mixture packets*

**Step 4:** Remove irrigator handle. Uncoil the tubing to the desired length to allow irrigation handle to reach the nose.



*Remove irrigator handle.*

**Step 5:** Turn the device on using the power button on the front control panel. This will not start the stream of water.



Turn the device on

**Step 6:** Use + and - controls to set the desired flow rate. We recommend that you start with the lowest setting, and gradually increase the flow rate as desired.



Use + and - controls to set the desired flow rate.

**Step 7:** Press the appropriate button for either continuous flow or pulsatile flow irrigation.



Turn the device on

**Step 8:** Start irrigating:

- Lean over the sink. Bend your head so you are looking down toward the sink basin.
- Keeping your mouth open, and without holding your breath, place the tip snugly against your nostril.
- To start the stream of solution, slide the blue button on the handle upward. Saline will enter one nostril and drain out the other side. Do not swallow or spit when irrigating.
- To temporarily stop the flow of water, slide the blue button on the handle downward until you hear a "click."



Lean over the sink. Bend your head so you are looking down toward the sink basin.



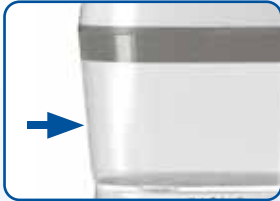
To turn ON, push button upward



To turn OFF, push button downward



- When you are about half way through the solution, stop the flow of water and switch to the other nostril. Use 125 mL to 250 mL, or 4 to 8 ounces, of solution for each nostril.



*Half way through the solution, switch to the other nostril.*

- Blow your nose very gently, ensuring not to pinch completely to avoid pressure on the eardrums. If tolerable, sniff in any residual solution remaining in the nasal passage once or twice. This may clean out the posterior nasopharyngeal area, which is the area at the back of your nasal passage. Generally, the fluid in your sinuses will exit about 20 minutes later when the cilia are activated.

**Step 9:** Power off device



*Turn the device off*

**Note:** When turning off the stream of water with the switch on the handle, it is important to slide the switch all the way down until you hear a “click.” This will ensure that the valve is fully closed and water will not leak out.

## Instructions for Cleaning and Disinfecting Device:

- Refill the basin with distilled, commercially bottled or previously boiled and cooled water and run the machine to flush out any residual solution.
- Turn basin upside down with top open to allow for air. When dry, replace the basin on the machine. Be sure lid is kept closed. Do not leave water in the basin.
- After each use, clean the tip with warm water and dishwashing detergent. Be sure to rinse thoroughly and dry completely.

For regular use, follow one of the below disinfecting protocols every 1 to 2 weeks:

**Household Bleach Disinfection Protocol:**

Add 60 mL (about 2 oz) of bleach and fill the basin with water. Run the machine for about 120 mL (4 oz) back into the basin. Place nasal and throat attachments you have used into the basin. Carefully time 10 minutes and run the solution out through the machine. Rinse the basin thoroughly. Fill with fresh water and run three to four full cycles, or until the solution no longer has the bleach smell. Never use full strength bleach as this will damage the washer rings (O rings). Soaking longer than 10 minutes will damage the rubber or silicone parts.

**Vinegar Disinfection Protocol:**

Fill the basin with 1 part white vinegar and 3 parts hot water. Submerge the tips that you have used in the basin and soak for 30 minutes. Remove the tips and rinse under running water. Run the dilute vinegar solution out through the machine. Fill with fresh water and run three to four full cycles, or until the solution no



longer has a vinegar smell. Dry all parts completely.

### Hydrogen Peroxide cleaning protocol:

Fill the basin with 1 part hydrogen peroxide and 3 parts hot water. Submerge the tips that you have used in the basin and soak for 30 minutes. Remove the tips and rinse under running water. Run the dilute hydrogen peroxide solution out through the machine. Fill with fresh water and run three to four full cycles. Dry all parts completely.

After 10 minutes of continuous use, rest the machine for several minutes to allow the motor to cool.

### Advantages of HydroPulse® Neo

**NeilMed® HydroPulse® Neo** may help natural healing by:

1. Restoring ciliary movement: Cilia are pulsed by speed and thick mucus may be removed to allow cilia to move.
2. Physically displacing excess mucus: Excessive mucus may be displaced from the sinus cavities by the combination of flow past the opening (Bernoulli's effect) and pulsating pumping action.
3. Removing Biofilm: Biofilm that encircles bacteria as well as actual bacteria may be removed or disrupted.

### QUESTIONS AND ANSWERS

#### Q1. What is the advantage of nasal rinsing?

Some amount of mucus production from the nasal and sinus lining is normal. Allergies and infections will cause excessive mucus production. This creates nasal and sinus symptoms such as runny and stuffy nose and post-nasal drip. When you perform a nasal rinse, you wash away excess mucus and irritants such as pollen, dust particles, pollutants and bacteria,

thus reducing inflammation of the mucus membrane. Normal mucosa will fight infections and allergies better, and symptoms may be reduced.

#### Q2. How much saline mixture should I use for nasal irrigation with the HydroPulse® Neo?

Always follow the directions from the manufacturer for the mixture you are using. To make a 480 mL nasal wash, we suggest using 1 green **NeilMed® SINUS RINSE®** Premixed Packet or 2 blue **NeilMed® SINUS RINSE®** Premixed Packets to make an isotonic solution. One can also use 1 **Breathe-ease™ XL Premixed Packet** or 1 scoop of **Breathe-ease™ XL mixture**.

#### Q3. What if I prefer a higher concentration of salt solution?

Some physicians do recommend hypertonic (double or triple the saline concentration) solutions in certain cases. They believe that a higher concentration will draw the fluid and excessive mucus out of congested nasal and sinus openings. If you prefer higher salinity or a hypertonic solution, you can use 2 or 3 times the saline mixture directed above. For example, one may use 2 green **NeilMed® SINUS RINSE®** Premixed Packets, or 2 scoops of the **Breathe-ease™ XL mixture**. As always, be sure to stir until the mixture is fully dissolved.

#### Q4. Why do you need such a large volume of solution?

A large volume of saline solutions creates a momentum that sweeps away allergens, excess mucus, pollutants, dust and animal dander in the path of the flow.

#### Q5. Why do you recommend low pressure and not high pressure?

Low pressure will ensure that no discomfort is experienced in the ears or sinuses.

**Q6. What temperature should the water be?**

Most persons prefer lukewarm or body temperature. NEVER use hot water – above 100.5° F.

**Q7. Can cold water be used?**

Cold water tends to shrink the membranes and can be used, although many users will find this uncomfortable.

**Q8. What is the best time of day to do a nasal rinse?**

Nasal rinses can be done at any time of day, however, we recommend that you rinse at least one hour before leaving your home or going to bed. This is to avoid the occasional drainage of a small amount of leftover solution or liquefied mucus from the nasal passages, which may drip down the throat or out of the nose shortly after irrigation.

**Q9. How many times a day can a nasal rinse be performed?**

Most users find that rinsing twice a day is most beneficial. In our opinion, rinsing 3-4 times per day or for special circumstances, even rinsing up to 6 times per day, is safe. Please follow your physician's advice.

**Q10. What are the causes of a burning sensation related to nasal irrigation?**

Under normal circumstances, you should not feel any burning or stinging if you have created the proper dilution with NeilMed Sinus Rinse or **BreatheEase XL** mixtures. Causes of a burning sensation include:

1. Forgetting to put the saline mixture in the tank
2. Using more than the specified quantity of mixture for the water quantity
3. Using water that is too hot or too cold

4. Not thoroughly dissolving the mixture in the water if you are following all directions and still experiencing burning or stinging, please discontinue nasal rinsing and contact our customer service department for advice.

**Q11. What should I do if the nasal rinse causes pain in the ear?**

Nasal rinsing is not recommended if you have an acute or new ear infection or ear discomfort of any kind. If you have any infection or discomfort, we advise that you consult your physician before starting rinses, or wait until symptoms subside. If symptoms recur, stop the rinses and consult your physician as soon as possible.

**Q12. Why does my nasal passage feel stuffy after using the rinse?**

Some people experience reflex or rebound congestion with exposure to saline. This condition is usually very transient. If symptoms continue, consider using a hypertonic (double strength) solution, or use an over-the-counter decongestant for a day or two. This is usually a very benign and mild condition that should resolve with time. Unless very symptomatic, there is no need to discontinue ongoing irrigation. It will most likely resolve on its own.

**Q13. Can I add any other ingredients, such as eucalyptus oil, alcohol, herbal medications, corticosteroids, or antibiotics?**

Please ask your physician and only do so according to your physician's advice.

**Q14. What should I do if I happen to swallow the saline during the nasal irrigation procedure?**

It should not cause any harm, even if you have high blood pressure or a heart condition. If you follow our

directions, tilting your head forward, the chances of solution reaching the back of the throat are very small.

**Q15. Is it common for solution to drain from my nose after rinsing?**

Yes, this is very common, and is why we do not recommend rinsing your nasal passages right before going to bed. This will generally happen in the 15 to 20 minutes after using the rinse.

**Q16. Should workers exposed to occupational dust perform nasal rinses?**

Workers who are exposed to large amounts of environmental or occupational dust from construction work, farming, mining and various other occupations may benefit from regular use of the nasal rinse procedure. You should rinse the nose as soon as possible after exposure. The sooner the irritant is removed from the delicate membranes, the less likely it is that the membranes will become inflamed and congested.

**Q17. Do nasal rinses improve the sense of smell?**

It is possible, but currently there are no medical publications at this time to show any correlation between rinses and sense of smell. However, we know that chronic rhinitis and sinus symptoms will adversely affect the sense of smell and taste, and that nasal rinses symptomatically improve many nasal and sinus conditions.

**Q18. What is rhinitis?**

Rhinitis is an inflammation of the mucosa (the delicate lining of the inner body surfaces) of nasal passages.

**Q19. What is sinusitis?**

Sinusitis is an inflammation of the mucosa of various sinuses.

**Q20. How does one differentiate between rhinitis**

**and sinusitis?**

Due to overlapping symptoms, it may be difficult to differentiate between the two. Usually, symptoms of rhinitis include stuffy, runny, or drippy nose, scratchy throat and dry cough. Symptoms of sinusitis are more severe than the symptoms of rhinitis and often include increased nasal secretions and pain around the sinuses, such as facial pressure and pain.

**Q21. What are the symptoms related to sinusitis and blockage of the ostia (openings of the sinuses)?**

The following are symptoms of acute & chronic sinusitis:

- Night time cough due to post nasal drip
- Pain in the upper jaw or teeth
- Loss of sense of smell or taste
- White, yellow or green discharge
- Nasal Congestion
- Runny nose
- Headache
- Persistent Fatigue
- Facial Pressure
- Snoring
- Ear Pain
- Fever

**Q22. What are the causes of rhinitis and sinusitis?**

- Cold viruses
- Allergies, including food allergies
- Bacterial or fungal infections
- Grass
- Dust, smog, or environmental pollutants
- Nasal polyps and deviated nasal septum
- Moderate to severe gastroesophageal acid reflux disease (GERD)
- Smoking

### **Q23. Can nasal rinses prevent or reduce a head cold or flu symptoms?**

In the initial stages of a head cold and/or flu, saline rinses in large volume help reduce excess mucus and keep sinus passages clear.

### **Q24. How do I know if I need surgery for my sinuses?**

There are various forms of endoscopic sinus surgeries (ESS or FESS) that can often cure or improve symptoms. We strongly advise that you contact your physician. You can request your doctor to refer you to an ENT (ear, nose & throat) or allergy specialist if your symptoms are not improving.

### **Q25. What is FESS & ESS?**

Functional Endoscopic Sinus Surgery (FESS) is a commonly used term for endoscopic sinus surgery (ESS) and generally involves very little post-operative discomfort. Current technology including fiber optics, video cameras, high-resolution video monitors and high-resolution advanced CAT scanners allow excellent examination of all openings of the sinuses, nasal turbinates and nasal septum. When required, surgery will restore the anatomy to as normal as possible or more likely as functional as possible by removing obstructions and improving drainage. FESS or ESS can help improve or, in many, cases cure the symptoms of chronic sinusitis.

### **Q26. Would I need to change my nasal irrigation technique after sinus surgery?**

You may need to rinse more carefully, and you may find that a larger amount of rinse solution will be necessary. For best results, after you finish rinsing, you may need to take a little more time to change head positions to allow more complete drainage from

the sinuses. While bending over the sink, tilt your head sideways to help improve the drainage of any residual rinse solution. A lot of the post sinus surgery population may require more frequent rinsing. Consult with your physician about safe and effective post-operation nasal irrigation.

### **Q27. What is a corticosteroid nasal spray?**

Synthetic or pharmaceutical corticosteroids are anti-inflammatory drugs. They are not anabolic steroids so please do not confuse these two. Physicians prescribe corticosteroid nasal sprays to reduce chronic inflammation of the mucosa (mucus membrane) of nasal passages and sinuses.

### **Q28. What are nasal decongestants and when do I use them?**

Nasal decongestants constrict the dilated blood vessels and reduce nasal and sinus congestion. You can ask further advice about when to use them from your doctor or pharmacist.

### **Q29. What are antihistamines?**

Antihistamines are the most common medications used to treat allergies. They work by blocking the effects of histamine, which is released during an allergic reaction. They help relieve the symptoms of sneezing, itchy nose and eyes and runny nose. They are not as helpful with nasal congestion.

### **Q30. Can I drink alcohol during acute or chronic symptoms of rhinitis and sinusitis?**

Some individuals may get skin flushing and nasal congestion with the use of alcohol. Alcohol worsens these symptoms and it is recommended that you check first with your doctor or do not use alcohol while these symptoms persist.

### **Q31. Does smoking lead to rhinitis and sinusitis?**

Yes, smoking can lead to rhinitis and sinusitis due to constant irritation.

### **Q32. Does rhinitis or sinusitis affect asthma?**

It has been established that there is a definite correlation between the symptoms of rhinitis, chronic sinusitis and asthma. This is based on the unified or united airway disease, as all the areas are contiguous. Curing or reducing rhinitis or sinusitis may improve the symptoms of asthma significantly. Approximately 80% of the patients suffering from allergic asthma have coexisting allergic rhinitis.

### **Q33. What are allergens or allergy inducing particles?**

Allergens are usually organic particles that attach to the nasal mucosa or respiratory mucosa and lead to the development of an antibody, which creates a series of chemical reactions leading to allergic symptoms. Everybody's reaction to allergen exposure is different. The same amount of exposure to allergy particles can cause mild, moderate, or severe reactions in different people. Some may not have any reactions at all. Those with moderate to severe reactions will have symptoms.

### **Q34. Can you name a few allergens?**

There are indoor allergens as well as outdoor allergens. Examples of indoor allergens include dust mites, molds, pet dander (from animals and birds) and pests. Examples of outdoor allergens are pollen, grass, wood dust, and mold. Other substances such as cigarette smoke, perfumes and aerosol spray can be irritants and worsen allergy and sinus symptoms, or can act as allergens themselves.

### **Q35. Are allergens always visible?**

Most individual allergens are not visible. Dust mites

are a typical example. They are not visible to the naked eye, yet they are present in every house. Dust mites are microscopic creatures that feed on human skin flakes and are present in mattresses, pillows, carpets and upholstery.

### **Q36. How do I reduce the problem of dust mites?**

Clean all the areas where dust may be collecting. Carpets and sofa upholstery should be vacuumed on a regular basis. Wash pillow cases, sheets and blankets in hot water. Enclose mattresses and pillows in special allergy proof encasements. You can also contact an allergy care or supply company for more details.

### **Q37. What is mold?**

Mold is a fungus. It can be present in any area where it is damp and warm, especially in basements, bathrooms, kitchens and water damaged areas, such as wood, carpets, water coolers and heater fans.

### **Q38. What is pet dander?**

Any pet with hair or feathers will shed dander. These tiny particles come from its skin. Dander is a very common cause of indoor allergies in the home and in other areas where animals and birds are raised.

### **Q39. What is seasonal allergic rhinitis?**

Allergy symptoms that bother you only at certain times of the year, such as spring or autumn, are commonly called hay fever, or seasonal allergic rhinitis. These symptoms are commonly caused by pollens and occasionally molds.

### **Q40. What is perennial allergic rhinitis?**

This occurs when a person develops symptoms throughout the year whenever he or she is exposed to specific allergens, such as dust or cat dander.

We hope you have gained useful information from

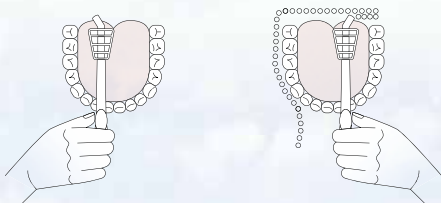
this literature. We are confident that **NeilMed®** brand products will help you breathe more freely and comfortably. In our efforts to improve our products, we appreciate any feedback you may have. Please contact us at [questions@neilmed.com](mailto:questions@neilmed.com) with feedback and questions.

**Thank you.**

## USE OF THROAT IRRIGATOR

### Throat Irrigator Directions:

1. Open the lid of the water reservoir to locate the tips. Remove the throat irrigator tip and insert into irrigator handle.
2. Fill the basin of irrigator with warm water. You can irrigate with plain water or add one packet of **NeilMed® SINUS RINSE®** solution or one capful of mouth wash.
3. Power on the device.
4. Set the **HydroPulse® Neo** at a low setting by using the + and – controls.
5. Set the throat tip so that the length is parallel to the tongue, to the right of the midline. Aim for just behind the last lower tooth.



6. Lean over the sink. Push the blue switch on the handle of the irrigator upward to start the stream

of water. A gentle water stream will massage the throat, tonsils and tongue, depending on how you have positioned the tip. Some persons may experience gagging if the stream enters too far back in the throat. Gently pull the scraper back and forth on the tongue to remove odor causing particulate matter.

7. Turn off the unit and rinse the throat tip thoroughly with clean water.

For fresh daily breath, use once in the morning.

For onset of sore throat, use 4 times a day.

For severe infected throat, follow your doctor's direction.

### How It Works:

The **Grossan Original Throat Irrigator Tip®** sends a gentle, pulsating stream of solution over the throat. Unlike gargles and mouthwashes, the original throat irrigator may penetrate pores and crevices to gently rinse away food particles and odor causing bacteria for cleaner, fresher breath. The pulsatile action may get into the deep crevices of the tonsils.

## TONGUE CLEANING

Food particles and debris may lay stagnant on the tongue. Use the tongue scraper by gently moving from back to front, either without the stream or with the stream set to low. If there is any bleeding, stop and see your doctor. Do not use to treat a lesion or growth of the tongue. In this case, seek medical advice.

For Good Throat Hygiene, Remember the Following Rules:

1. Never clear your throat with excessive force.
2. Do not use sore throat medications more often than directed.



3. Excessive dryness of the air is not good for your throat. A simple bowl of water in the bedroom at night may help prevent this.
4. Avoid gargling. This can cause hoarseness and strain the voice.

## BAD BREATH PROBLEMS

Breath problems can affect your health and social relations. Most breath problems come from breakdown of proteins by certain bacteria from the nose, mouth, and throat. There are a small number that can come from a serious chest condition, but these are usually noted at once because the patient is sick. Most breath conditions can occur in otherwise healthy persons. The **HydroPulse® Neo** is designed to aid most breath problems.

Anything that dries the mouth can lead to odor because the natural flora of the mouth is no longer washed away, so the bacteria can multiply and give off odor. Fasting, dieting, drying medications, and dry mouth on awakening are common causes. Certain conditions that decrease saliva flow cause “stasis” of the salivary liquid and dryness of the mouth.

Sinus and throat irrigation with the **HydroPulse® Neo Nasal/ Sinus Irrigation System®** is an effective method to help control bad odors resulting from excessive mucus, post-nasal drip, tonsil stones, and sinus infections. The **HydroPulse® Neo** helps to minimize the amount of excess mucus in the back of the throat, and more importantly, to make sure you neutralize odor caused by this excess mucus.

**Q1. I was told that if I use the throat irrigator I could avoid tonsil surgery. Is this true?**

If the tonsils are diseased, washing them out in this manner and improving drainage may potentially help restore the tonsils to health. Consult your doctor.

**Q2. What is the best solution to use for throat irrigation?**

Consult your health professional on this. Most persons prefer to use over the counter mouth wash solutions that have been diluted with water. Saline or plain water are fine as well. It is the stream pulsation that really helps.

**Q3. How often should I irrigate the throat?**

For general breath control, irrigate once a day. To prevent a sore throat or at the early onset of a throat problem, irrigate 4 to 6 times a day, or as needed.

**Q4. Can I use the same solution for my throat after I finish the nasal irrigation?**

Yes, you can use the nasal solution for the throat, but you cannot use any ordinary throat solution for the nasal irrigation.

**Q5. I have used the nasal irrigation, throat irrigation and tongue cleaner, but I am told I still have a breath problem. What are other possibilities?**

Pulsatile nasal and throat irrigation and tongue cleaning takes care of a lot of causes of breath problems. You still must floss daily. Other causes include gum or periodontal disease, dental disease, acid reflux and lung infection. Speak to your health professional.



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## MISSING OR DAMAGED PARTS

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