Sinusitis Arrhythmia Infection

Sinusitis Arrhythmia, more commonly referred to as Respiratory Sinus Arrhythmia, is a naturally occurring variation in the heart rate that can take place during a breathing cycle. The sinus rhythm can be disrupted during a sinusitis infection due to blockages in the airways creating arrhythmia which is any disturbance in the heart rate. When a sinusitis infection has developed, it is caused by bacteria or a blockage in the sinus cavities typically from a cold or allergy. Swelling occurs in the sinus cavity and the sinus opening after bacteria enters inside of the sinuses. After the bacteria attacks the sinus cavity opening lining more inflammation occurs, trapping the bacteria and mucus inside creating the sinusitis infection.

- Symptoms of a sinusitis infection are congestion, facial pain, headache, green nasal discharge, and cough. Sinusitis frequently disrupts respiration and interferes in the respiratory process which can trigger a sinusitis arrhythmia infection.

Arrhythmia

Arrhythmia is a condition that takes place when the electrical activity in the heart is irregular. The heart is controlled by the parasympathetic nervous system which is connected to the inhalation and exhalation process, respiration. When a person has severe congestion and is not breathing well, the sinus rhythm can be disrupted. The person may experience their heart “flutter”. Arrhythmia is a syndrome which takes place when there is interference in the sinus node, the tissue in the heart that generates an electrical impulse. Disruption in the sinus node e.g. sinoatrial node can create arrhythmia and the person can sense that there is a disruption and feel their heart not functioning as it should.

Medications

There are many medications on the market along with pace makers and other electronic devices to treat a sinusitis arrhythmia infection. Sinusitis is typically treated with a variety of medications. Antibiotics are frequently prescribed to treat sinusitis infections.

- Antibiotics act in the body by traveling though the blood stream via blood vessels to the area of infection. In the sinuses however, there are very few blood vessels and the medication has difficulty making contact with the infection in the nasal cavities. The amount of medication needed to reach the sinus cavities is difficult to gauge, as the amount of blood vessels is very small.

Misc Treatments
Nasal sprays are often used in combination with other treatments to maximize benefits of ridding infection from the sinus area. Nasal sprays are also limited in making contact with the infection in the sinus area. The nasal spray itself is a device which has an opening that is so large that the droplets emitted are unable to travel into the tiny openings of the upper sinus passages. The large particle size emitted from the nasal spray bottle cannot reach back into the tiny sinus cavity opening. There is frequently inflammation at the cavity opening when there is an infection, the large nasal spray droplet is then able to only douche the lower sinus cavity and cannot deliver medication or relief into the sinus area which is in need of medication.

**Aerosol therapy aka Inhalation therapy**

Premier offers the most innovative treatment for sinusitis infection currently on the market with custom compounded antibiotics, anti-fungals, and anti-inflammatories that are delivered directly into the sinus cavities with a state of the art nebulizer that produces a pressurized aerosolized mist.

- Premier nebulizer emits a fine medicated mist with 3.2-micron particle size that can rapidly enter the inflamed sinus cavities, depositing medication and making contact with the infection directly.

- Premier treatment approach is painless and effective in treating sinusitis. Premier’s topical approach to treating sinusitis is particularly effective as medications that are topically applied result in little to no side effects and ensure a low systemic absorption rate as well as reaching the site of infection unlike the other treatment methods prescribed.