"I am suffering from gas" "I am taking antacids for 20 years" is a very common complaint encountered by almost all doctors especially by gastroenterology. If asked what actually they mean by gas, there are diverse response to cite some examples, "gas means gas" "may gas in not in the abdomen but in my head", "my gas comes out through gas ear, nose, or even scalp". There will be a lot of story if all doctors share their experience about gas, a few days earlier a patient came with opisthotonus and complaining that there is entrapment of gas within abdomen and chest but not responding to even injectable ...prazols. unfortunately he was suffering from tetanus. Abdominal problem for which patients commonly complains gas are belching, abdominal pain, anorexia, nausea, vomiting, abdominal fullness, audible bowel sounds, incomplete evacuation of bowel, passing excessive flatus etc. Besides gastrointestinal disorders, patient with ischemic heart disease, uncontrolled hypertension, vestibular disorders, migraine and different somatoform disorders commonly presents to us with the complains of 'Gas'.

What is intestinal gas? Five gases namely N₂, O₂, CO₂, H₂ and CH₄ account for more than 99% of intestinal gas of which N₂ is predominant. In the fasting state, healthy gastrointestinal tract contains only about 100 ml of gas distributed almost equally among six compartments-stomach, small intestine, ascending colon, transverse colon, descending colon and pelvic colon. Postprandially, the volume of gas increases by 65%, primarily in the pelvic colon. Gas enters the stomach primarily via air swallowing and leaves the stomach via belching, absorption or enters into the duodenum. In the proximal small intestine, interaction of bicarbonate and acid produces large quantities CO₂. Gas producing bacteria in the colon ferment unabsorbed substrates and release H₂, CO₂ and Sulfur containing gas. Other bacteria uses this gases, some diffuses into blood and eliminated via breath and remainder eliminated via anus.

The rate and volume of gas excretion per rectum is highly variable. Normal volume ranges from 500 to 1500 ml per day and normal number of passage of gas per rectum ranges from 6-20 (mean 13.6) times/day.

Excessive gas belching or eructation is almost always a psychological disorder and is aggravated by rapid eating, smoking, drinking carbonated beverage, gum chewing etc. Voluminous but odorless flatus is usually results from bacterial fermentation of undigested carbohydrates. Excessive odoriferous flatus usually produced by sulfate containing substrate like cruciferous vegetables, meats and eggs.

So, what should we do? It is the history which will give the answer. First thing is clarification. It should be cleared from patient that 'what they actually mean by gas?' Gas and Gastric ulcer are not the same thing so obviously H₂ receptor blockers or proton pump inhibitors (PPIs) are not the answer for all gases. Prompt diagnosis of life threatening illness with immediate treatment can save life of patient with so called 'Gas'; while assurance and life style modification may be sufficient for majority. If we proceed is such a way, we can reduce injudicious use of PPIs (Probably the most commonly sold drug of our country) and can save a lot of money.

References :