

# Frank Morales, MD

## Hyperbaric medicine for autoimmune disease and cancer

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### **About the lecture:**

The use of Hyperbaric Oxygen Therapy (HBOT) is well known for its role in the oxygenation and stimulation of repair in tissues along with its very important function of its anti-inflammatory affect. Needless to say HBOT plays a very important role in sub aquatic medicine for its effective treatment of the bends which is a common misfortune of many divers. HBOT in other areas of medicine is poorly understood (i.e. for its use in the adjuvant care of cancer, viral, bacterial and other infectious diseases). We will focus on the areas of cancer and other infectious chronic degenerative diseases. For the use of HBOT in the treatment of cancer we must thoroughly understand cancer and its metabolism. In 1931 Otto Warburg won the Noble prize, for his research which led to the discovery of oxygen-transferring enzymes in cellular respiration of cancer cells, showing that cancer cells had a low oxygen concentration or an anaerobic metabolism. In 1944 he won a second Nobel Prize for identifying the enzymes that transfer hydrogen in cellular metabolism.

It is well know that the anti-oxidative enzymes which our bodies produces and utilize to protect us from constant oxidative stress caused by natural occurring free radicals is what sets us apart from other organisms, this allows us to survive in a extremely high oxidative environment.

### **About Dr. Morales:**

Frank Morales, MD received his degree from Grace British School of Medicine, British West Indies. He then did his Residency Training at Texas Tech Health Science Center, El Paso, Texas in Family Practice and Obstetrics and Gynecology. Dr. Morales is certified by the American Board of Oxidative Medicine. In addition, he is Past President of the International Oxidative Medicine Association. Dr. Morales currently sits on the Board of directors of American College for Advancements in Medicine. He is an Associate Professor and teaches Oxidative Medicine worldwide. He is also Board Certified in Chelation Therapy and Heavy Metal Toxicology and Board Certified in Nutrition. In addition, Dr. Morales is Medical Director of Investigaciones Immunologicas de Mexico SA de CV, Medical Director for the Foundation for Light Therapy and a leading Researcher in Ultra Violet Light Therapy and Photodynamic Therapy. He has led several research projects for the Foundation in different parts of the world like Tanzania and Uganda Africa, in search of a cure for cancer, AIDS and other terminal diseases. Dr. Morales is also on the teaching faculty at the Instituto Odontologico de Matamoros, Mexico where he heads the Biological Dentistry Department of Research and Clinical Practice. His most recent project is in Stem Cell Therapy and Progenitor Cells. Dr. Morales is the director of stem cell research at the University Instituto Politecnico Nacional one of the largest Universities in Latin America based in Mexico City. He is President of the Latin American Hyperbaric Medical group: Medicina Hiperbarica de Mexico, a Medical Board for specialists in Hyperbaric Medicine and active Associate Professor at Mexican Governmental training facilities throughout Mexico. Dr. Morales is Associate professor at the Hyperbaric Oxygen research Facility at the Univrsity Politecnico Nacional based in Mexico City. Dr. Frank Morales is owner and Medical Director of Rio Valley Medical Centers.

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### **Learning Objectives:**

*At the conclusion of this lecture, attendees should be able to*

1. Discuss the adjuvant role of HBOT in cancer and how it is the driving force behind such a powerful therapy as photodynamic therapy for cancer.
2. Recognize the oxidative stress produced in HBOT and its adjuvant role it plays in the treatment of infectious and chronic degenerative diseases.

### **Contacting Dr. Morales:**

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