





## **Sri Ramachandra Faculty of Sports & Exercise Sciences**

VS

## **ARTIFICIAL HYPOXIA**



Heavy exercise causes **Lactic Acid** accumulation in the muscles

Body compensates by hyperventilating (increased O2 consumption)

Oxygen reacts with Lactic acid □ CO2 + water.
CO2 is washed out normally.
But in case of artificial hypoxia (elevation mask)
CO2 is trapped

Causing hypercapnia and reduced cognitive function



## ENVIRONMENTAL HYPOXIA



Decreased Oxygen availability at high altitudes causes physiological adaptations

Hypoxia induced **Erythropoietin**– stimulates bone marrow production of RBCs

More **hemoglobin**, therefore more **oxygen** delivery to **muscles** 

**Better physical performance** 



- Dr Rohit K R