The largest population of patients requiring mechanical ventilation is the elderly and although age is a predictive factor in the severity of Ventilator Induced Lung Injury (VILI) the exact interaction of age and VILI is unknown. It is however known that VILI creates pulmonary edema and induces a state of inflammation and infection that can mimic or lead to sepsis. It has recently been shown that high levels of serum Vitamin C can significantly inhibit the formation of pulmonary edema and can fight sepsis in mice. In this project we will investigate the effectiveness of using high does Vitamins-C to treat VILI in aging mice. In this project we are working directly with Dr. Alpha the chairman of the department in the VCU health system. He is assisting us to ensure that our research is both novel and of considerable potential benefit to patients in clinic. If effective our results could be used in the development of life saving Vitamin-C treatment protocols in aging ventilator patients.