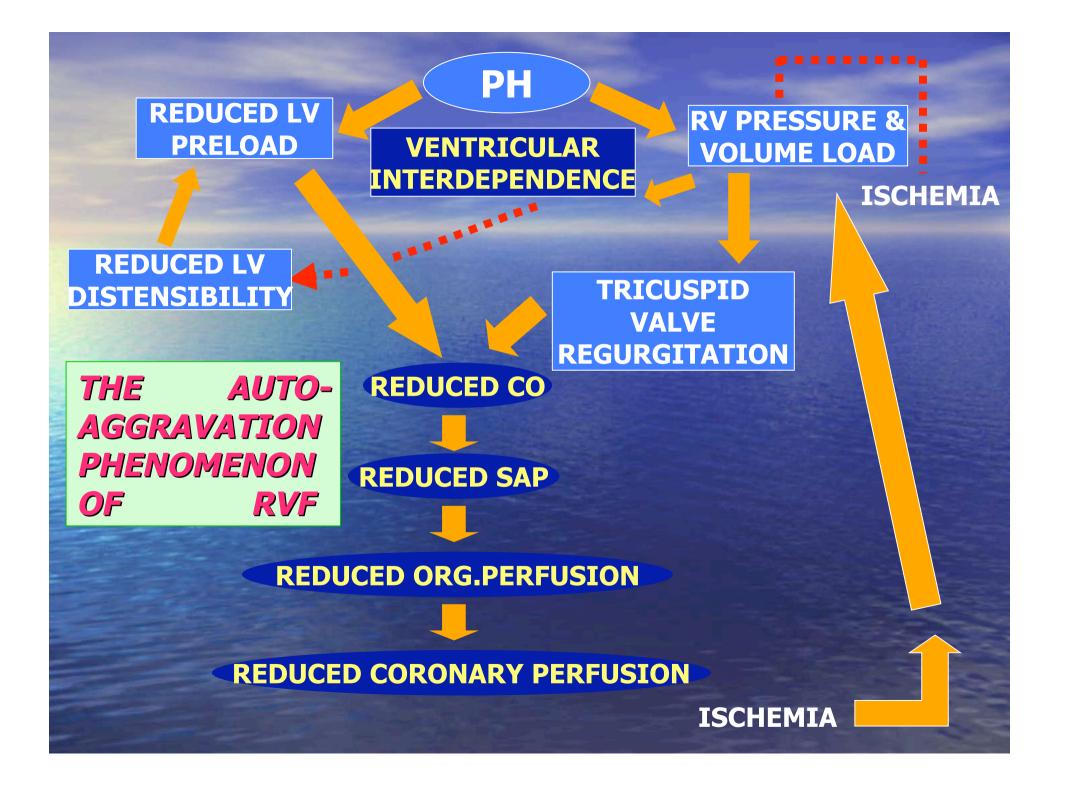
THE COMMONEST TRIGGER PHENOMENA OF PH IN THE ICU SETTING ARE INCREASED LEFT ATRIAL PRESSURE, ACUTE VASCULAR OBSTRUCTION, AND WORSENING [ PRE-EXISTING ] HYPOXEMIA

CONSEQUENTLY, TREATMENTS SHOULD PRIMARILY BE DIRECTED AT THE UNDERLYING CARDIAC, VASCULAR OR RESPIRATORY DISEASE

HOWEVER, MORE THAN OCCASIONALLY, WE ARE DEALING WITH PATIENTS HAVING PRE-EXISTENT CHRONIC PATHOLOGICAL LUNG AND PULMONARY VASCULAR CONDITIONS WHO NEED INTENSIVE THERAPEUTIC SUPPORT DURING WORSENING FOLLOWING SUPERIMPOSED RESPIRATORY OR C-V DISEASE



## WHICH PROBLEMS DO WE NEED TO FACE UP IN ADULT ICU PATIENTS WITH RVF ?

PULMONARY VENOUS HYPERTENSION ; INCREASED PULMONARY BLOOD FLOW
PULMONARY EMBOLISM
ACUTE EXACERBATION OF COPD
ALI/ARDS [ SEPSIS—INDUCED RVF ]
RVF ASSOCIATED WITH END STAGE LUNG DISEASE
RVF ASSOCIATED WITH END STAGE PULMONARY VASCULAR DISEASE
OSAS AND THE MORBID OBESE PATIENT [?] PULMONARY HYPERTENSION AND RIGHT VENTRICULAR FAILURE IN THE ICU: GENERAL THERAPEUTIC HINTS

- DO YOUR BEST WITH OXYGEN [ breathing of F<sub>1</sub>0<sub>2</sub> = 1 may worsen IP-shunt in ALI/ARDS-pts with low PEEP levels;
   Santos C et al. AJRCCM 2000; 161: 26-31 ]
- IMPROVEMENT OF LV FILLING [ VOLUME ]
- 🖈 OF RV AND LV CONTRACTILE STRENGHT [ INOTROPES ]
- MAINTENANCE OF AORTIC BLOOD PRESSURE [ VASOPRESSORS ]
- PULMONARY VASODILATORS

## PULMONARY VASODILATATION IN THE ICU SETTING

## Inhaled pulmonary vasodilators

Preferred because of selective pulmonary vasodilation

Drugs: nitric oxide, PGI2 and Analogues; Sildenafil?

## • Oral pulmonary vasodilators ?

- First line: sildenafil 12.5 50 mg tid
- Medium/long-term rescue: bosentan 62.5-125 mg bid
- Combined therapy: sildenafil & inhaled iloprost