Edwin Rodriguez Cruz, MD
Cardiology
The San Jorge Hospital
Cardiovascular Center of Puerto Rico

Disclosure None

- Mortality
 - Varies by region- 4.0 to 8.8 deaths per 100,000 annually
- Cardiac deaths due to Influenza
 - Varies by region, too; 3% to 6% of all CV deaths
 - 2007 Russia- increase in 30% of CV deaths during Influenza season



- Presentation- pre-existing CV disease- increases 6 fold during season
 - · AMI
 - Heart failure
 - Arrhythmia
 - Myocarditis
 - Myopericarditis



- Increased risk in older adults, especially with comorbidities (>65yo)
 - Increased metabolic demand, plaques rupture, immune stimulation, adrenergic surge, dehydration, hypercoagulability, direct toxicity to the muscle
- · Young patients- with comorbidities, too.



• 0.66% per 100,000

Influenza-Prevention

Vaccination

- Treatment
 - · Oseltamivir- safe cardiac profile
 - Zanamivir- inhaled- no for COPD
 - Peramivir- IV administration
 - Other meds: beloxivir



Natural remedies

- Summary:
 - Deaths: 54 to 96 per 100,000 for infected patients
 - However, 3% to 6% mortality in CV patients (annually)



Conclusion

Get vaccinated!!!

