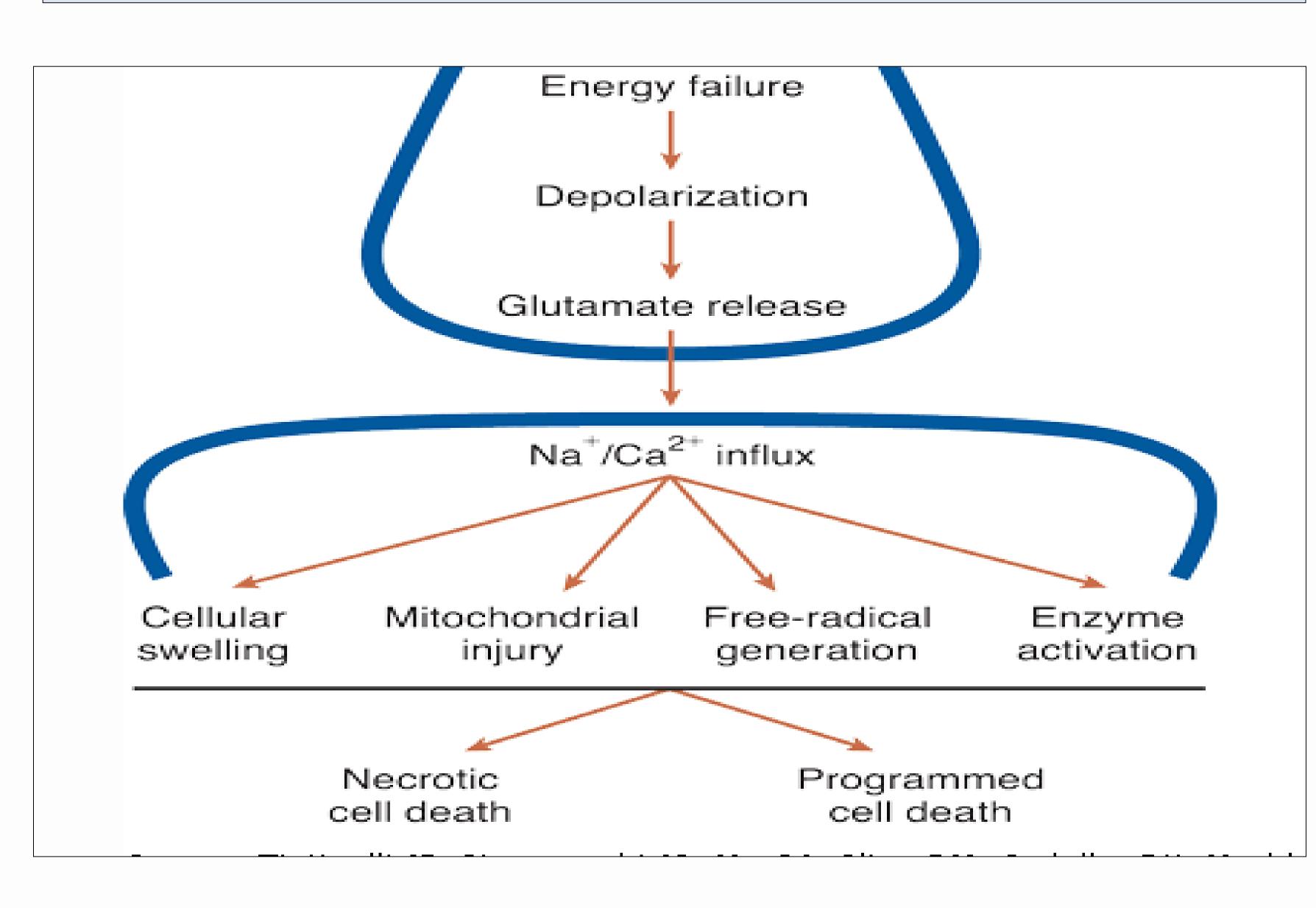
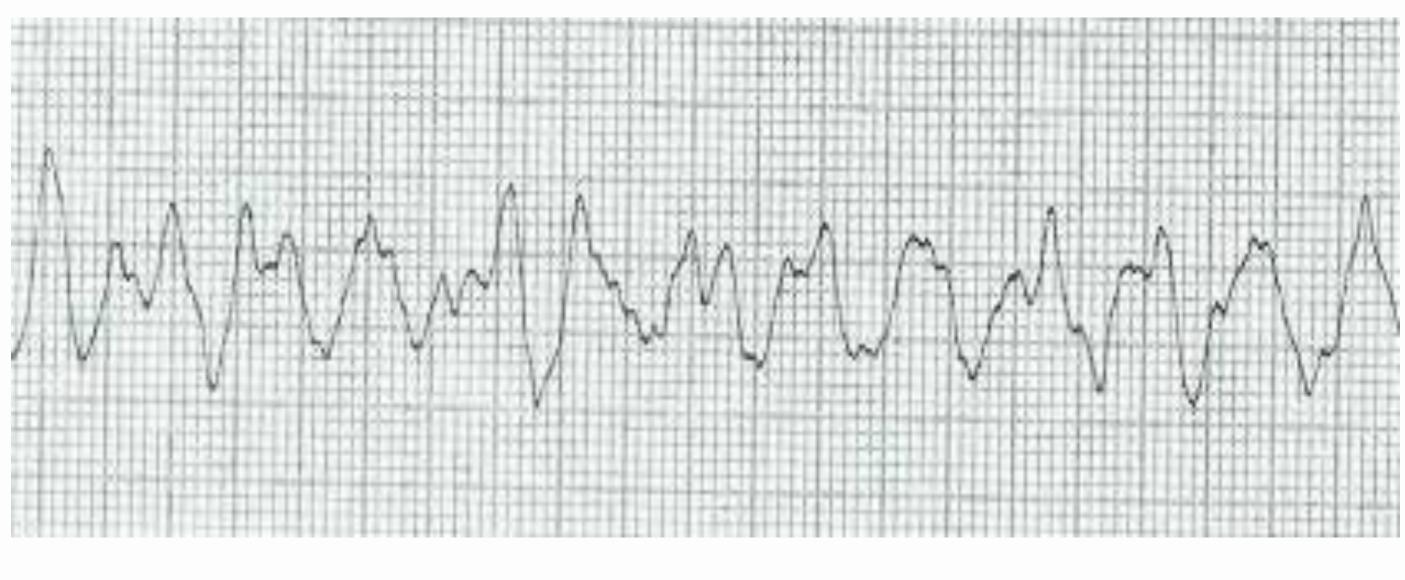
Therapeutic Hypothermia: A Cool Treatment Of Cardiopulmonary Arrest Deepa Bhanot, MD; Jill Hanrahan, MD; Ghiyath Al-tabbal, M.D.

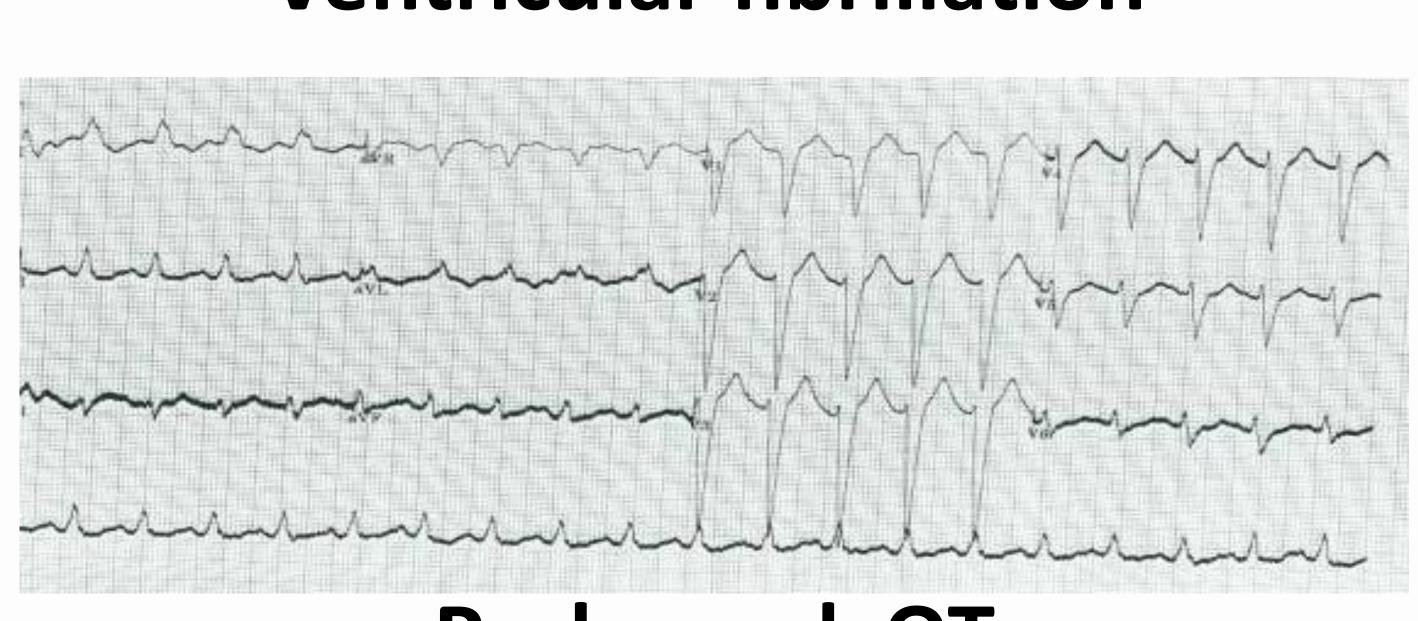
Introduction

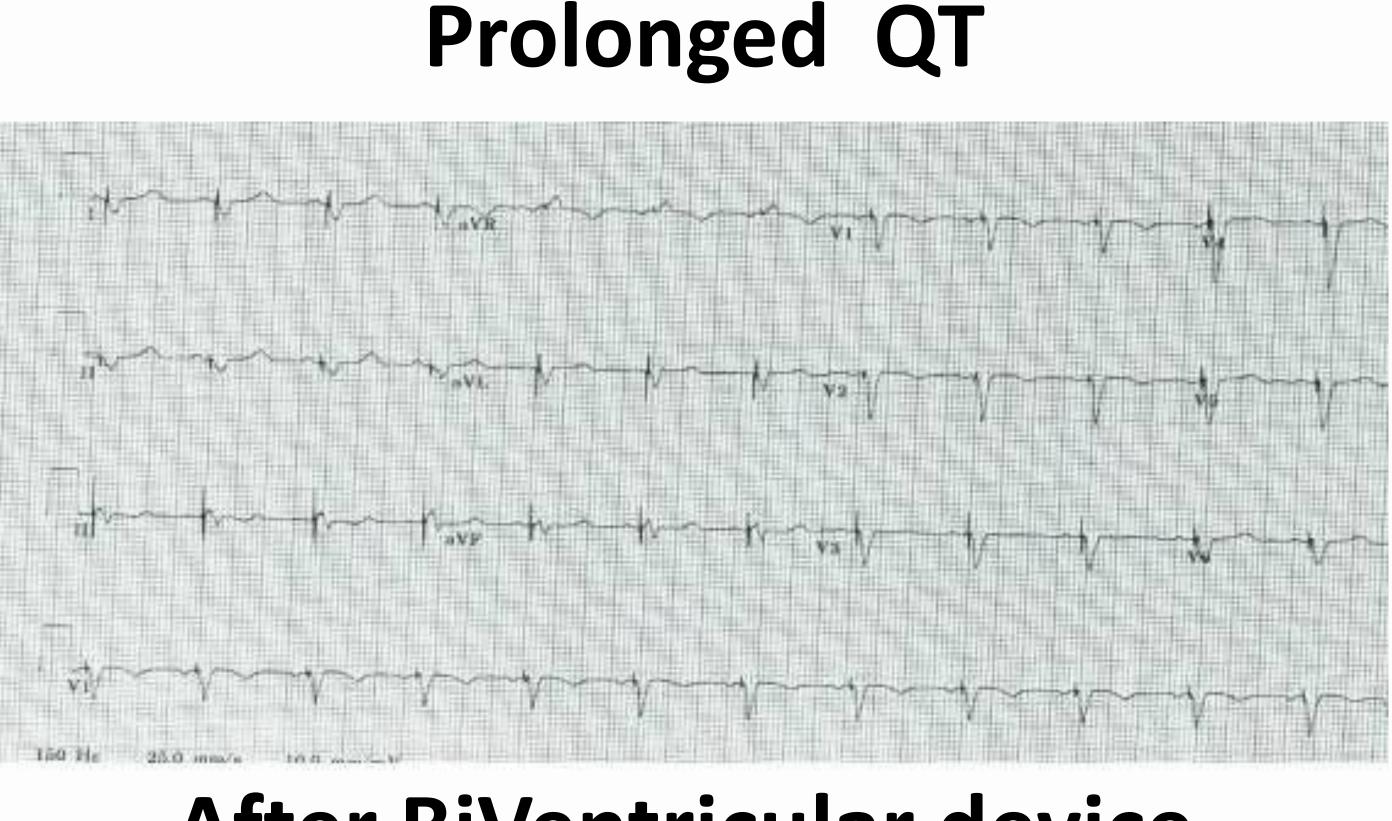
- Therapeutic hypothermia was pioneered by 2 landmark studies (Safar et.al and Bernard et.al) in 2002.
- Brain temperature during the first 24 hours after resuscitation from cardiac arrest has a significant effect on survival and neurological recovery. Cooling to 32-34°C for 24 hours was associated with a decreased mortality.

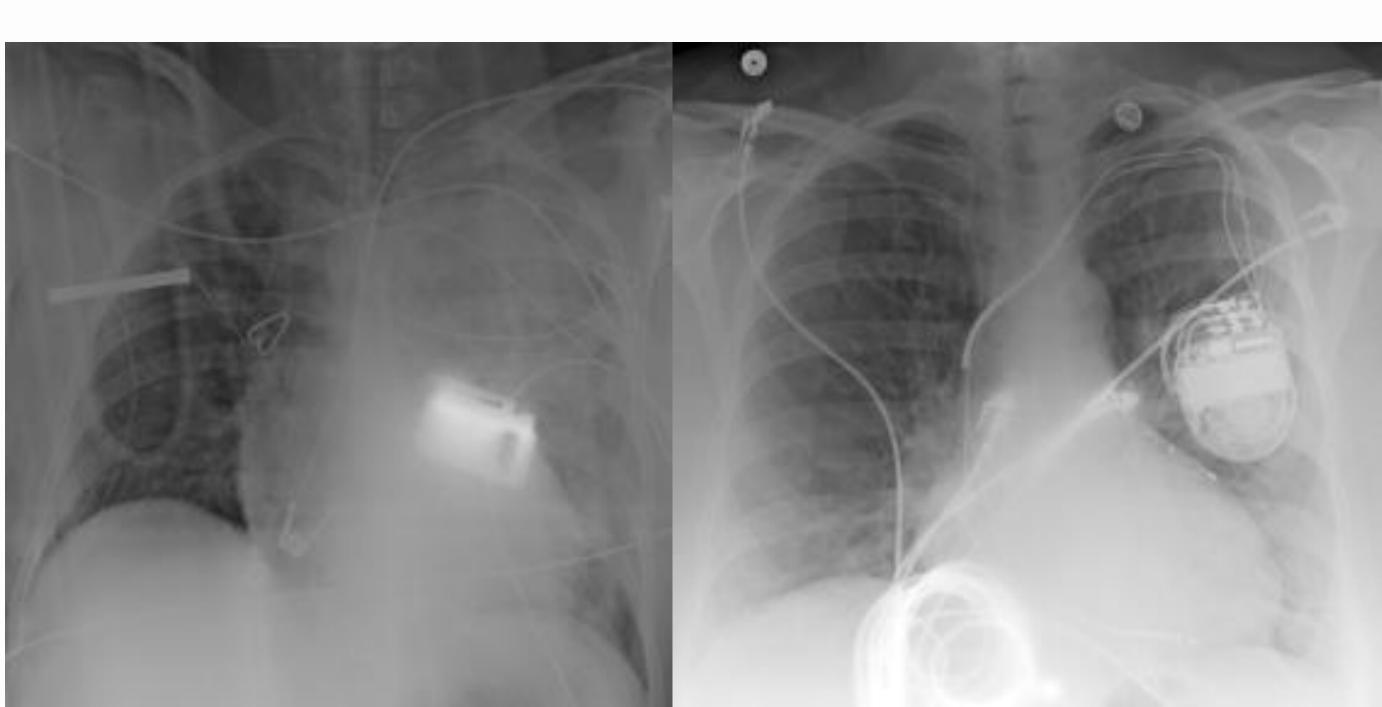


Case Presentation A 49-year-old female was comatose s/p CPR after sudden collapse. The patient was taking pseudoephedrine for decongestion prior to the episode. EKG s/p V fib showed profound QT prolongation (>550 msec). Therapeutic hypothermia was instituted followed by full neurological recovery. A biventricular device was placed. Genetic testing was to be completed on follow up.









CXR before and after



Ventricular fibrillation

After BiVentricular device

2D Echo before

Conclusions

hypothermia. even OTC.

References

- 56.
- 2296-301.

Newer therapeutic modalities in our arsenal to treat patients with as grim a scenario as cardiopulmonary brain resuscitation to preserve the patient's neurological function include therapeutic

The clinician should exercise caution when the patient is on medications,

Safar PJ, Kochanek PM. Hypothermia after cardiac arrest. N Engl J Med 2002; 346:612-613.

Zeiner A, Holzer M, Sterz F, et al. Hyperthermia after cardiac arrest is associated with an unfavorable neurologic outcome. Arch Intern Med 2001. 161:2007-12. Hypothermia after Cardiac Arrest Study Group. Mild therapeutic hypothermia to improve the neurologic outcome after cardiac arrest. N Engl J Med 2002; 346:549-

Bernard SA, Gray TW, Buist MD, et al. Treatment of comatose survivors of out-of-hospital cardiac arrest with induced hypothermia. N Engl J Med 2002; 346: 557-63. Oddo M, Ribordy V, Feihl F, et al. Early predictors of outcome in comatose survivors of ventricular fibrillation and non-ventricular fibrillation cardiac arrest treated with hypothermia: a prospective study. Crit Care Med 2008; 36:

