



ORIGINAL RESEARCH PAPER

Emergency Medicine

VENTRICULAR TACHYCARDIA: STROM

KEY WORDS:

Dr. Nolesh Patel	2 nd Year Resident Emergency Medicine VS Hospital Ahmedabad
Dr. Vikash Gupta*	3 rd Year Resident Emergency Medicine VS Hospital Ahmedabad *Corresponding Author
Dr. Bhupendra Singh	2 nd Year Resident Emergency Medicine VS Hospital Ahmedabad

INTRODUCTION:

Ventricular tachycardia is wide complex tachycardia of more than 120millisec duration originating from ventricle at rate of more than 100bpm. Short period of VT may occur with or without symptom usual presentation include palpitation, chest pain. Prolonged VT is life threatening.

CASE: 39 year old male presented with history of palpitation for last 2 years which has increased recently. No past medical or surgical history.

BP. 80/60 mm hg, H.R. 212/min, RR 16/min, Spo2 97% on RA, RBS 132mg/dl, TEMP- afebrile

PRIMARY SURVEY

Airway patent
 Breathing BLAE equal, Normal work of breathing
 Circulation all pulses are felt, CRT<2min
 Disability GCS15/15

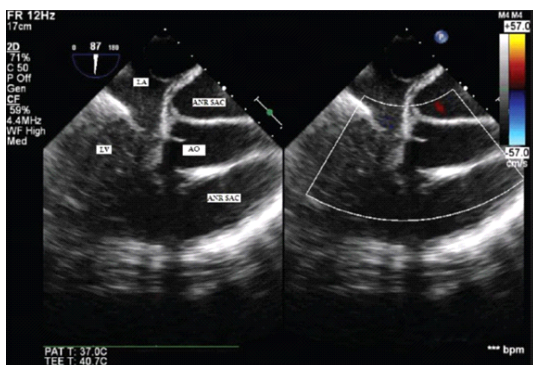
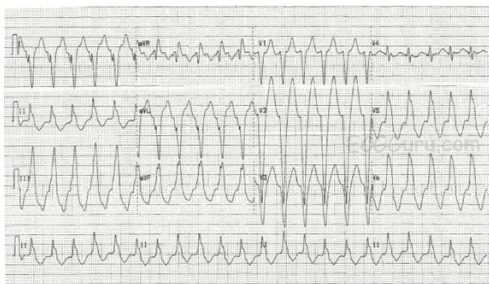
All of sudden ECG shows ventricular tachycardia with hypotension (80/60 mm hg)

IMMEDIATE ACTION

100 J Synchronized cardioversion
 i.v. access sample sent
 H.R. 212/min
 Cardiology consultation

INVESTIGATION:

ECHO -EF 20 - 25 %



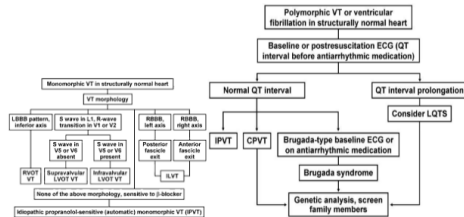
CORONARY ANGIOGRAPHY - normal coronary
TROPI – Positive (>50ng/dl)

Electrophysiological study - focal ventricular tachycardia from right ventricle mid septum

DISCUSSION-

Ventricular tachycardia in structurally normal heart is defined as idiopathic ventricular tachycardia. Structural heart disease can be rule out if echocardiogram and coronary angiography are normal.80-90% of ventricular tachycardia in normal heart originate from RVOT and 10% from LVOT.

Radiofrequency ablation is safe and effective treatment.



CONCLUSION:

Ventricular tachycardia is more or less commonly seen with structural heart disease. Radiofrequency Ablation is treatment of choice. Recurrence is less commonly seen with Radiofrequency ablation.

Reference:

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3. Steven J Compton, MD, FACC, FACP, FHRS is a member of the following medical societies: American College of Physicians, American Heart Association, American Medical Association, Heart Rhythm Society, Alaska State Medical Association, American College of Cardiology