

Use of Remdesivir Causing Sinus Bradycardia and **Eventually Asymptomatic Mobitz Type 1** Atrioventricular Block

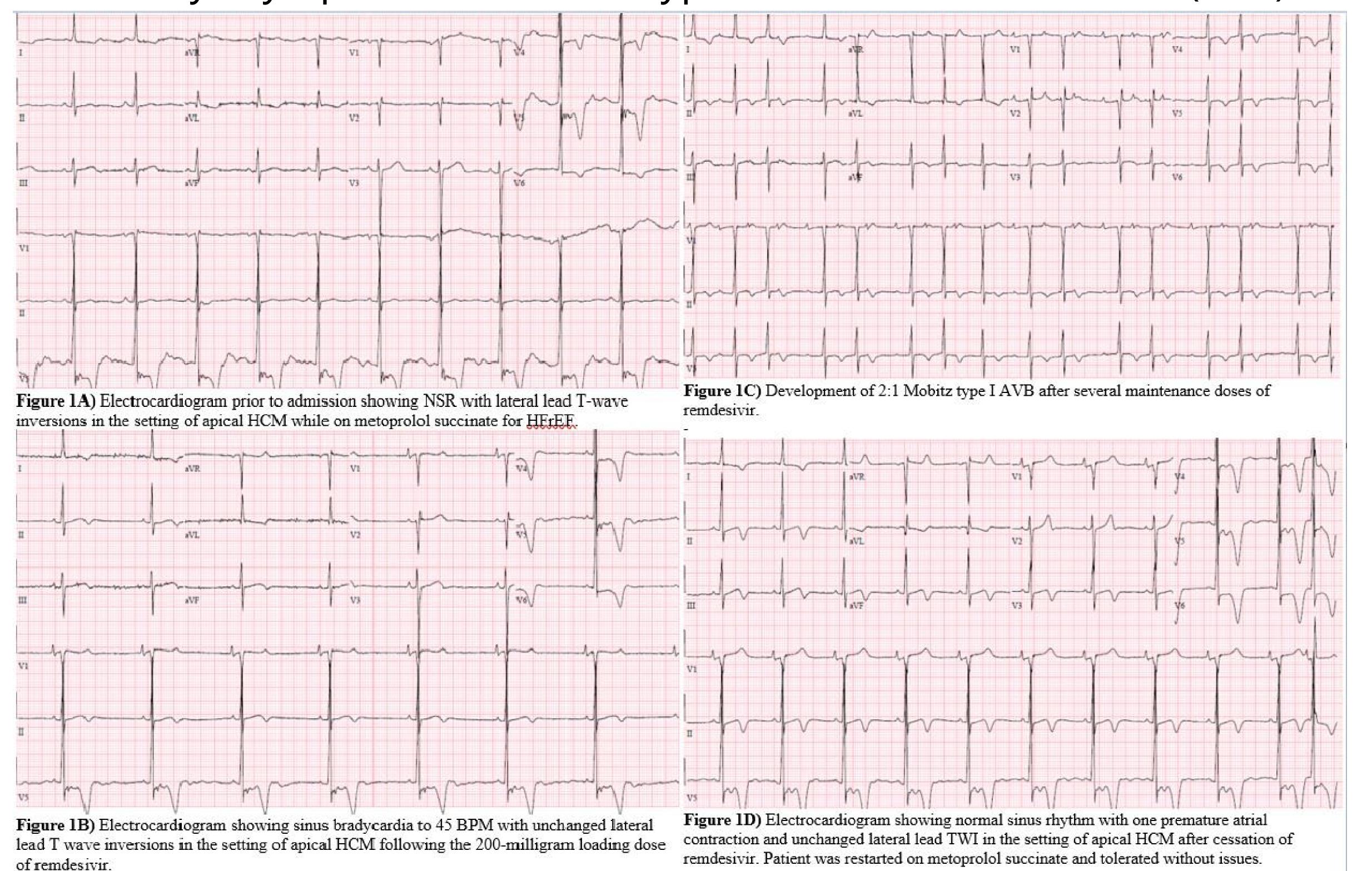


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Case

Background A 70-year-old woman with apical hypertrophic cardiomyopathy (HCM), Remdesivir has emerged as a novel treatment in

heart failure with reduced ejection fraction (HFrEF) and atrial fibrillation (AF) status post ablation presented with shortness of breath. She was tachycardic to 115 beats per minute (BPM) and hypoxemic to the 80's, requiring supplemental oxygen via a non-rebreather mask. She was found to have COVID19 pneumonia, for which dexamethasone and remdesivir were started. She developed marked bradycardia and eventually asymptomatic Mobitz type 1 atrioventricular block (AVB).



hospitalized COVID19 patients not mechanical ventilation. Though there have been several case reports of remdesivir-associated sinus this bradycardia, association remdesivir's interaction Furthermore, blockers has not been studied.

Decision Making

COVID19 pneumonia diagnosed, was dexamethasone and remdesivir were started. She immediately became bradycardic and remdesivir and beta blockade were held. Of note, she was taking metoprolol succinate at home for HFrEF. Bradycardia and AVB resolved with cessation of remdesivir and she was discharged home safely on metoprolol succinate.

Conclusion

especially remdesivir, Patients those underlying cardiomyopathy, are at higher risk for bradyarrhythmia. Remdesivir may potentiate the effects of beta blockers and their concomitant use requires judicious monitoring.



