























Shock Impedance vs. Lead Impedance Impedance is a measure of the resistance to the passage of the electrical current through the conductor.
 Increasing lead impedance measurements are possible with lead fractures because of the increased resistance to the electrical current flow within the lead. A decrease in lead impedance measurements are possible with insulation concerns because of the decreased resistance to the electrical current flow within the lead.
Note: There may NOT be an alert associated with an impedance change that is gradual – but overall trend should be considered in all cases.







































Afib With RVR In An ICD Next steps for the patient with inappropriate Afib with RVR detection	
History of Afib or new diagnosis?	
Anticoagulation status?	
 If pt. received a shock, did it cardiovert the Afib? 	
Rate-control meds?	
Did they miss any medications?	
 Any recent changes in medications? 	
 Been sick (fever, vomiting, diarrhea)? 	
 Did they start dialysis or have a surgical procedure? 	
 Consider contacting Tech Support for programming recommendations to avoid inappropriate shocks moving forward and discuss with MD. 	
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ATP Acceleration Of VT Next steps for the patient with ATP that accelerated VT
 Review patient's medications, medical history, and discuss with patient if they have had any recent changes to their medications.
 Contact Tech support for recommendations on best options for programming to avoid ATP acceleration of VT in the future.
 Some devices may automatically block ATP schemes that accelerate a rhythm until re-programming and this can also be explained by Tech support.
 Discuss Tech support's recommendations with MD as well as other patient information and make programming changes as directed.
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Slow VT (Below Therapy Zones)
 Can be difficult to identify on single lead ICDs. Will not have a recording (EGM) to help you. HR Histograms are often your only source of information to correlate with any possible complaints from the patient (palpitations, racing heart, dizziness, etc.) Slow VT can be due to medications and/or worsening heart failure.
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Slow VT (Below Therapy Zones)	
• Can be easily missed.	
No VT/VF alerts	
 May not have any EGMs to review 	
 Best "source" of information may be the patient reported symptoms and: HR Histograms 	
 AR and VR trends Medical history & medication changes 	
Patients with LVADs are often not symptomatic with VT	
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